

AD-A116 472 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
USAF, ALA. KOREA. REVISED UNIFORM SUMMARY OF SURFACE WEATHER ORSF--ETC (1)  
JUN 82

UNCLASSIFIED USAF TAC/OS-82/035

SHI-AD-F850 194

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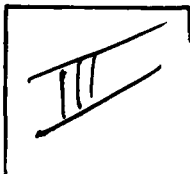
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**REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS**

OSAN AB KO  
N 37 05 E 127 02 FLD ELEV 38 FT RKSO

MSC #471220

PARTS A-F  
FOR FROM HOURLY OBS: JAN 73 - DEC 81  
FOR FROM DAILY OBS: JAN 53 - DEC 81  
TIME CONVERSION GMT TO LST: +9

**JUN 14 1982**

**FEDERAL BUILDING**

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**ASHEVILLE, N. C.**

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This technical report has been reviewed and is approved for publication.

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AMS Scientific and Technical  
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The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WHO number with the addition of a suffix zero; or, in cases where there is no designated WHO number, a 5-digit number created in agreement with WHO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

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ADP 850 194

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM															
1. REPORT NUMBER USAFETAC/DS-82/035	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER															
4. TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSMO)- OSAN AB, KOREA		5. TYPE OF REPORT & PERIOD COVERED Final rept.															
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18. SUPPLEMENTARY NOTES  Supersedes Rept. no. USAFETAC/DS-78/007, AD-A061 831.																	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSMO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSMO	Daily temperatures	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative Humidity	*Climatological data	(over)
*RUSSMO	Daily temperatures	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative Humidity	*Climatological data	(over)															
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for OSAN AB, KOREA It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)																	

FORM  
DD 1 JAN 73 1473

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

19. Percentage frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables

KOREA

OSAN AB, KOREA

20. and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurring tables.

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U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

### DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

### DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

Unless otherwise noted the following summaries are included for this station:

#### PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

#### PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

#### PART C SURFACE WINDS

#### PART D CEILING VERSUS VISIBILITY

SKYCOVER DATA NOT AVAILABLE

#### PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC-DRY VS WET BULB

MEAN & STD DEV -  
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

#### PART F STATION PRESSURE

SEA LEVEL PRESSURE DATA NOT AVAILABLE

### STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

### MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_  
FEBRUARY \_\_\_\_\_  
MARCH \_\_\_\_\_

APRIL \_\_\_\_\_  
MAY \_\_\_\_\_  
JUNE \_\_\_\_\_

JULY \_\_\_\_\_  
AUGUST \_\_\_\_\_  
SEPTEMBER \_\_\_\_\_

OCTOBER \_\_\_\_\_  
NOVEMBER \_\_\_\_\_  
DECEMBER \_\_\_\_\_

STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FIELD ELEV (FT)	CALL SIGN	WMO NUMBER
471220	OSAN AB KOREA/OSAN-NI K-55	N 37 05	E 127 02	+ 38	RKSO	471220

## STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE NSL		OBS PER DAY
			FROM	TO			FIELD (FT)	HT. BARO.	
1	Osan AB Korea	AB	Jan 53	Feb 54	N 37 06	E 127 02	39	42	24
2	Same	Same	Mar 54	Mar 55	Same	Same	53	63	24
3	Same	Same	Apr 55	Jul 57	Same	Same	Same	Same	24
4	Same	Same	Aug 57	Feb 59	Same	Same	46	56	24
5	Same	Same	Mar 59	Feb 62	Same	Same	48	41	24
6	Same	Same	Mar 62	Jun 70	Same	Same	45	Same	24
7	Same	Same	Jul 70	Jul 72	N 37 05	Same	Same	Same	24
8	Same	Same	Aug 72	Nov 77	N 37 02	Same	38	Same	24
9	Same	Same	Dec 77	Dec 79	N 37 06	Same	Same	Same	24
10	Same	Same	Jan 80	Apr 82	N 37 05	E 127 02	Same	Same	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Jan 53	Located 350 ft ENE of station	AN/GMQ-1	ML204B (Wind Pnl)	12 ft	
2	Apr 53	Located 500 ft from stn in a clearing	Same	Same	15 ft	
3	Apr 55	Located on Base Operations Bldg	Same	Same	32 ft	
4	Mar 56	Located on Base Weather roof.	Same	Same	30 ft	
5	Aug 57	Located on top of Observation Tower	Same	Same	35 ft	
6	Mar 60	Located on top of ROS.	Same	Same	42 ft	
7	Dec 62	Located 500 ft S of runway centerline and 1500 ft W of runway 09.	AN/GMQ-11	RO-2	13 ft	
8	Mar 67	Same	Same	Same	Same	
9	Jun 69	Located 500 ft S of runway centerline and 1500 ft W of runway 09	AN/GMQ-20	RO-362	13 ft	
10	Jul 70	Same	Same	Same	Same	

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorms, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sum of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

47122 USAN AB KO 73-81 JAN  
STATION STATION NAME YEARS MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02		3.1		6.2		9.0	24.3	10.9			35.3	834
	03-05		2.3		6.6		8.5	29.1	10.1	.1		39.3	834
	06-08		1.8		6.8		8.6	35.3	12.7	.2		48.2	834
	09-11		1.7		6.1		7.8	36.0	28.9			64.9	837
	12-14		2.0		4.1		6.1	11.0	19.0			30.0	837
	15-17		3.1		5.0		8.0	2.6	12.4			15.1	837
	18-20		3.3		5.7		9.0	9.0	20.0			28.9	837
	21-23		3.6		6.7		10.0	16.2	14.3	.2		30.8	837
TOTALS			2.6		5.9		8.4	20.4	16.0	.1		36.6	6687



GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

4112  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

FEB  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	00-02		4.5		2.9		7.0	17.2	8.3			25.5	762
	03-05		3.9		3.5		7.2	20.1	9.2			29.3	762
	06-08		4.5		4.3		8.4	29.1	15.6			44.8	762
	09-11		5.1		4.1		9.2	24.7	26.5	.1		51.3	762
	12-14		4.1		5.5		9.6	4.1	12.7	.1	.4	17.3	762
	15-17		3.8		4.7		8.3	1.6	7.9	.3	.4	10.1	762
	18-20		4.2		3.1		7.3	5.1	15.5		.3	20.9	762
	21-23		4.7		2.2		6.7	11.8	11.3	.1		23.2	762
TOTALS			4.4		3.8		8.0	14.2	13.4	.1	.1	27.8	6796

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFH WEATHER SERVICE/MAC

## WEATHER CONDITIONS

471220 OSAN AB KO

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	00-02		6.2		.8		6.8	16.1	11.1			27.2	837
	03-05		5.5		1.1		6.5	27.4	9.9			37.3	836
	06-08		5.4		2.0		7.2	42.0	14.6			56.6	836
	09-11		6.2		2.0		8.2	21.1	24.4		.1	45.6	837
	12-14		5.9		1.4		7.2	.8	7.4		.7	9.0	837
	15-17		7.3		1.3		8.6	.5	4.9		.7	6.1	837
	18-20		5.9		.8		6.7	2.6	9.8		.4	12.8	835
	21-23		6.1		.7		6.5	6.6	9.9			16.5	837
TOTALS			6.1		1.3		7.2	14.6	11.5		.2	26.4	6692

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

471020 STATION USAN AB KO 73-81 APR MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-02	.4	11.6				11.6	13.8	4.9			18.8	810
	03-05		12.0		.2		12.0	22.8	6.4		.4	29.6	810
	06-08		11.5				11.5	40.4	8.3		.4	49.0	810
	09-11		10.1				10.1	9.0	14.4		.4	23.8	810
	12-14		9.4				9.4	1.1	5.1		.9	7.0	810
	15-17		10.9				10.9	1.0	2.5		.9	4.3	810
	18-20	.2	8.8				8.8	3.1	4.7		.5	8.3	810
	21-23		11.0				11.0	5.1	7.2		.1	12.3	810
TOTALS		.1	10.7		.0		10.7	12.0	6.7		.5	19.1	6480

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF Weather Service/MAC

## WEATHER CONDITIONS

471020  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAY  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	00-02		6.9				6.9	12.5	3.8			16.4	837
	03-05	.1	9.4				9.4	27.9	2.6			30.5	836
	06-08	.1	8.6				8.6	38.0	10.8		.1	48.9	836
	09-11	.4	7.9				7.9	7.4	11.4		.6	19.4	837
	12-14	.5	7.5				7.5	1.6	4.1		1.3	6.9	836
	15-17	.6	9.6				9.6	.4	1.4		1.1	2.9	836
	18-20	.2	7.9				7.9	1.6	2.0		.7	4.3	835
	21-23	.4	7.0				7.0	4.3	2.7			7.0	837
TOTALS		.3	8.1				8.1	11.7	4.9		.5	17.0	6690

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

421223  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	00-02	.2	13.5				13.5	19.2	5.8			25.0	808
	03-05	.7	15.1				15.1	40.5	5.9			46.4	810
	06-08	.2	13.1				13.1	48.5	8.7			57.1	809
	09-11		8.1				8.1	13.3	15.9			29.3	810
	12-14		8.0				8.0	1.6	10.3			11.9	809
	15-17	.1	10.1				10.1	.7	7.0			7.8	810
	18-20	.4	11.0				11.0	1.4	9.5			10.9	810
	21-23	.4	11.6				11.6	7.0	8.5			15.6	809
TOTALS		.3	11.3				11.3	16.5	9.0			25.5	6475

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

471220  
STATION

OSAN AB MO

STATION NAME

73-81

YEARS

JUL  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	00-02	1.1	13.9				13.9	21.2	12.3			33.5	836
	03-05	.6	18.1				18.1	38.3	6.6			44.9	836
	06-08	.2	17.1				17.1	41.6	7.4			49.0	836
	09-11	.7	13.6				13.6	11.0	15.3			26.3	837
	12-14	.2	13.5				13.5	1.7	8.8			10.5	837
	15-17	.8	11.7				11.7	.8	4.9			5.7	837
	18-20	.2	10.6				10.6	2.2	7.4			9.6	836
	21-23	.8	11.1				11.1	7.3	9.0			16.3	836
TOTALS		.6	13.7				13.7	15.5	9.0			24.5	6691

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

AUG  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	00-02	.6	12.5				10.5	24.9	7.8			32.6	837
	03-05	.7	12.1				12.1	36.7	2.4			39.1	837
	06-08	.5	11.9				11.9	41.9	4.8			46.7	837
	09-11	.1	9.2				9.2	13.4	8.9			22.2	836
	12-14	.5	9.8				9.8	1.2	6.8			8.0	837
	15-17	.4	10.2				10.2	.6	4.2			4.8	836
	18-20	.6	11.0				11.0	2.5	6.5			9.0	837
	21-23	.2	9.9				9.9	8.1	5.7			13.9	837
TOTALS		.5	10.6				10.6	16.2	5.9			22.0	6694

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

SEP  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02	.4	7.4				7.4	28.3	4.4			32.7	810
	03-05	.5	7.8				7.8	41.4	2.5			43.8	810
	06-08	.1	7.5				7.5	51.8	5.2			57.0	809
	09-11		7.0				7.0	17.8	14.1			31.9	809
	12-14	.2	5.8				5.8	.7	4.0			4.7	810
	15-17	.1	7.5				7.5	.2	2.2			2.5	810
	18-20	.4	7.0				7.0	2.6	5.4			8.0	810
	21-23		6.8				6.8	12.3	6.2			18.5	810
TOTALS		.2	7.1				7.1	19.4	5.5			24.9	6478



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEAR

OCT  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	00-02	.1	6.8				6.8	31.2	2.3			33.5	836
	03-05	.1	8.4				8.4	37.8	.8			38.6	837
	06-08	.1	7.3		.2		7.5	52.4	2.9			55.3	836
	09-11		6.2		.4		6.6	28.7	11.5			40.1	837
	12-14	.2	5.1		.1	.1	5.4	1.6	7.4			9.0	836
	15-17	.7	5.6		.2		5.9		3.1			3.1	837
	18-20	.2	5.3		.2	.1	5.5	3.6	9.0			12.5	837
	21-23	.1	5.3		.1		5.4	19.1	3.9			23.1	837
TOTALS		.2	6.3		.2	.0	6.4	21.8	5.1			26.9	6693

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# WEATHER CONDITIONS

471220 OSAN AB KO

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	00-02		5.3		.9		5.9	33.6	4.4			38.0	810
	03-05		6.3		.2		6.6	37.0	2.5			39.4	809
	06-08		3.5		.7		4.2	46.0	3.1			49.1	808
	09-11		5.9		1.0		6.7	32.2	15.3			47.5	810
	12-14		5.2		1.2		6.3	4.8	13.0			17.8	810
	15-17	.4	6.3		1.3		7.3	1.4	11.1			12.5	810
	18-20	.1	4.1		.6		4.6	8.8	16.0			24.6	810
	21-23		4.8		.7		5.3	21.4	9.4			30.7	810
TOTALS		.1	5.2		.8		5.9	23.2	9.4			32.5	6477

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

47122J  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBS TO VISION	TOTAL NO. OF OBS.
DEC	00-02		1.8		4.1		5.7	34.3	8.9			43.1	835
	03-05		3.2		5.6		8.9	36.4	6.6			42.9	836
	06-08		4.2		5.1		9.3	46.0	7.6			53.6	837
	09-11	.1	3.9		4.8		8.1	40.5	22.3		.1	63.0	837
	12-14		3.5		3.0		6.5	7.7	20.8		.1	28.6	836
	15-17		3.5		4.1		7.3	3.8	12.9			16.7	837
	18-20		2.5		2.4		4.9	10.6	19.6	.1		30.3	837
	21-23		1.9		3.9		5.9	24.7	14.0			38.7	837
TOTALS		.0	3.1		4.1		7.1	25.5	14.1	.0	.0	39.6	6692

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

471227  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

ALL  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		2.6		5.9		8.4	20.4	16.0	.1		36.6	6687
FEB			4.4		3.8		8.0	14.2	13.4	.1	.1	27.8	6096
MAR			6.1		1.3		7.2	14.6	11.5		.2	26.4	6692
APR		.1	10.7		.0		10.7	12.0	6.7		.5	19.1	6480
MAY		.3	8.1				8.1	11.7	4.9		.5	17.0	6690
JUN		.3	11.3				11.3	16.5	9.0			25.5	6475
JUL		.6	13.7				13.7	15.5	9.0			24.5	6691
AUG		.5	10.6				10.6	16.2	5.9			22.0	6694
SEP		.2	7.1				7.1	19.4	5.3			24.9	6478
OCT		.2	6.3		.2	.0	6.4	21.8	5.1			26.9	6693
NOV		.1	5.2		.8		5.9	23.2	9.4			32.5	6477
DEC		.0	3.1		4.1		7.1	25.5	14.1	.0	.0	39.6	6692
TOTALS		.2	7.4		1.3	.0	8.7	17.6	9.2	.0	.1	26.9	78845

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAW data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

XX **WEATHER CONDITIONS**  
XXXXXXXXXXXXXXXXXXXXXXXXXXXX  
ATMOSPHERIC PHENOMENA

471220  
STATION

OSAN AB KC

STATION NAME

53-81

YEARS

ALL  
MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		12.2	.2	36.3	.2	43.0	49.7	78.7	2.0		85.4	890
FEB		.1	17.5	.1	28.1	.1	39.2	45.4	71.7	.9		79.6	819
MAR		.3	26.3		13.1		34.3	53.5	63.6		.1	77.2	899
APR		2.2	36.3		.7	.2	36.4	55.9	48.5		.3	69.9	870
MAY		2.2	34.8			.1	34.8	51.6	39.0			61.2	899
JUN		4.8	46.6				46.6	66.8	43.2			72.3	870
JUL		12.2	63.1			.1	63.1	71.7	32.7			75.0	899
AUG		9.5	50.6				50.6	64.1	31.8			67.6	898
SEP		3.9	36.0				36.0	65.9	35.9			67.9	870
OCT		3.0	29.0		.6	.1	29.0	62.6	43.9			67.4	898
NOV		2.1	36.4		8.5	1.1	41.0	59.1	52.9	.1		69.4	870
DEC		.4	22.6		30.1	1.0	45.1	52.8	63.5	.3	.1	75.4	898
TOTALS		3.4	34.3	.0	9.8	.2	41.6	58.3	50.4	.3	.0	72.4	10580

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

**PART B PRECIPITATION, SNOWFALL & SNOW DEPTH**

**B**

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (\*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

\* Values for means and standard deviations do not include measurements from incomplete months.

- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (\*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800IST
Jan 46-May 57	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT



2 GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
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## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

471220 OSAN AB KO

53-81

STATION

STATION NAME

YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR-ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	56.1	22.2	3.9	6.4	2.9	3.8	3.4	.8	.4					21.7	890	1.05	4.15	.0
FEB	59.6	21.2	1.5	5.4	2.6	5.7	2.0	1.7	.4					19.2	819	1.10	4.41	.0
MAR	64.8	14.9	1.4	4.7	2.2	4.0	3.6	2.3	2.0					20.2	899	2.13	6.08	.1
APR	62.6	9.7	1.7	5.4	3.2	4.8	3.4	3.8	4.4	.8	.1			27.7	870	4.47	17.50	.2
MAY	64.4	10.9	1.3	5.2	2.9	4.6	3.8	3.6	3.0	.3				24.7	899	3.35	9.70	.4
JUN	52.5	15.5	2.2	6.1	3.3	6.7	4.0	4.0	4.5	.9	.2			32.0	870	5.11	14.85	.1
JUL	34.7	16.5	3.6	6.0	3.0	7.9	6.5	7.5	10.3	3.2	.8	.1		48.8	899	13.19	24.01	4.6
AUG	48.1	12.4	3.0	4.5	4.1	6.7	5.3	6.0	6.6	2.9	.3	.1		39.5	898	9.98	31.78	1.5
SEP	62.9	9.5	1.4	3.7	2.9	4.1	4.8	4.5	4.8	1.1	.2			27.4	870	5.79	15.14	.0
OCT	73.0	8.9	2.1	3.6	3.7	4.6	4.1	2.0	.9	.2				21.1	899	1.97	7.38	.1
NOV	58.7	12.6	2.5	8.0	4.7	5.9	4.3	2.8	.5					28.6	870	1.67	3.92	.3
DEC	54.0	24.3	3.5	6.1	3.3	4.5	3.1	1.0	.2					21.7	898	1.04	4.75	.2
ANNUAL	57.4	14.9	2.3	5.4	3.2	5.3	4.0	3.3	3.2	.8	.1	.0		27.7	10581	50.85		

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES PRECIPITATION

(FROM DAILY OBSERVATIONS)

47122 OSAN AB KO

53-81

STATION

STATION NAME

YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
53	* .11	.12	1.56	2.21	.83	2.24	7.98	2.57	1.94	1.40	.12	.39	7.98
54	.22	2.08	.14	1.62	.95	1.56	5.15	3.70	1.43	.72	.45	.84	5.15
55	.38	.14	.42	1.62	.72	2.47	2.64	2.80	2.12	.80	1.15	.25	2.80
56	.20	.38	1.68	1.30	1.06	5.46	2.65	2.32	9.09	.74	.10	.37	9.09
57	.96	.80	.24	2.15	2.47	.34	5.87	1.51	.05	2.00	.87	2.30	5.87
58	1.11	.15	.53	1.50	.67	.73	10.23	2.14	5.74	1.97	1.91	.49	10.23
59	.27	.71	2.35	1.50	1.96	1.15	4.15	8.37	4.50	.58	.61	.66	8.37
60	.05	.06	1.49	.42	1.86	4.57	2.35	.88	.64	.07	1.02	.07	4.57
61	.40	.25	.86	3.24	1.57	.54	2.79	3.44	1.69	1.59	.91	.60	3.44
62	.03	.43	.21	.76	.41	2.64	1.64	1.39	2.99	.71	.67	.42	2.99
63	.48	.13	1.66	1.65	3.65	3.37	2.50	1.44	.57	.41	.76	.18	3.65
64	.62	.67	.41	5.78	2.10	1.18	2.62	4.36	3.16	.94	.53	.13	5.78
65	.50	.15	.70	.32	.13	.16	3.82	1.94	.39	1.13	.77	.11	3.82
66	.23	.70	1.29	1.32	.70	.92	5.20*	1.53	3.01	.35	1.71	.14	5.20
67	.41	.90	1.56	1.45	2.12	2.27	2.05	3.36	.81	.61	.91	.36	3.36
68	.11	.41	1.06	1.19	.92	1.85	2.63	3.95	4.88	2.71	.39	.22	4.88
69	1.12	.91	.26	2.47	1.80	.26	2.21	3.26	1.80	.24	.37	.29	3.26
70	.12	1.05	.05	.65	1.17	1.18	6.83	3.92	2.51	4.34	.57	.29	6.83
71	.42	.36	1.31	1.12	2.34	3.35	6.73	2.28	1.17	.17	.29	.56	6.73
72	.70	.32	1.35	.94	3.04	1.45	3.48	10.01	2.90	.72	.61	.19	10.01
73	1.02	.15	.09	1.44	1.86	1.83	1.60	1.71	1.69	.41	.61	.13	1.86
74	.49	.36	.98	3.46	2.61	1.26	4.54	2.01	1.78	1.44	.18	.47	4.54
75	.26	.07	1.12	1.43	1.11	.30	1.91	2.60	1.82	.50	.50	.62	2.60
76	.06	.97	.08	2.03	.72	.52	1.74	4.81	1.08	.80	.33*	.62	4.81
77	.05	.08	.48	3.74	1.35	2.96	2.75	1.27	2.48	.12	.75	.47	3.74
78	.45	.48	1.19	.20	.61	5.13	2.35	3.60	1.03	.60	.18	.31	5.13
79	.30	.82	1.77	2.29	1.36	3.46	2.18	2.08	.94	.93	.30	.52	3.46
80	.63	.15	.85	4.12	1.08	3.20	2.44	2.26	1.76	.85	.38	.62	4.12
81	.54	.11	.48	.87	.74	1.46	3.91	6.14	2.05	.42	.67	.28	6.14
MEAN	.433	.480	.902	1.820	1.445	1.993	3.688	3.219	2.277	.975	.642	.439	5.093
S.D.	.318	.440	.624	1.246	.842	1.463	2.120	2.078	1.864	.891	.423	.414	2.284
TOTAL OBS	890	819	899	870	899	870	899	898	870	899	870	898	10582

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
JUL 64

0-88-5 (OLA)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

\*\*\*\*\*  
EXTREME VALUES  
\*\*\*\*\*  
MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

471220 OSAN AB KO

53-81

STATION

STATION NAME

YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
53	* .18	.12	4.82	2.99	2.79	7.80	18.85	7.41	2.13	2.56	.44	1.42	*51.51
54	.78	4.41	.28	3.04	3.48	5.58	20.18	9.15	3.00	2.07	.91	1.32	54.20
55	.96	.14	.78	2.55	2.00	8.05	12.17	5.88	6.45	1.71	1.70	.45	42.84
56	.27	.75	5.99	3.86	3.14	12.25	14.43	4.44	12.29	1.13	.30	.82	59.67
57	1.78	1.21	.57	4.78	4.60	1.11	22.53	6.84	.07	3.39	1.11	4.75	52.74
58	4.15	.18	.69	6.97	1.02	1.66	22.91	9.66	14.46	3.39	2.91	1.38	69.38
59	.60	2.52	6.08	3.24	3.55	2.33	15.18	18.68	10.03	.97	1.25	1.73	66.16
60	.07	.09	3.64	.89	2.76	8.82	8.17	1.54	2.82	.10	2.06	.21	31.17
61	.94	.44	2.40	4.71	3.32	2.48	9.15	12.44	5.79	2.59	2.78	1.36	48.40
62	.09	.99	.61	2.67	.53	3.44	4.73	8.50	12.06	1.48	1.99	.85	37.94
63	1.42	.18	1.90	6.29	7.83	12.56	9.47	3.33	1.83	.89	2.18	.44	48.32
64	1.09	1.58	1.04	17.50	4.76	2.17	19.77	11.88	13.31	1.46	1.01	.46	76.03
65	1.56	.43	.96	.82	.40	.17	17.80	9.51	.58	2.05	3.17	.31	37.76
66	.29	1.43	4.07	1.69	2.06	2.00	20.50*	7.01	7.91	2.11	3.21	.34	*52.62
67	1.00	.99	3.64	3.19	3.15	4.38	7.16	8.38	1.63	1.16	3.30	.52	38.50
68	.17	.99	2.02	1.42	2.49	2.17	10.67	15.78	5.88	4.60	1.19	.59	47.97
69	2.71	2.69	.85	7.85	5.27	1.14	9.49	12.89	6.15	.46	1.39	1.00	51.84
70	.14	2.57	.11	1.53	3.51	4.67	20.13	8.84	15.14	7.38	1.60	.59	66.21
71	1.11	1.12	2.14	1.90	4.32	7.57	24.01	7.47	3.69	.55	.84	.82	55.54
72	2.86	1.07	4.03	1.89	5.76	2.86	8.22	31.78	7.06	1.77	3.92	.42	71.64
73	2.05	.19	.15	5.68	3.42	6.83	4.65	6.11	5.47	1.33	1.66	.26	37.80
74	.57	.81	1.70	8.42	9.70	2.48	11.79	5.83	2.25	2.21	.38	.99	47.13
75	.31	.11	4.03	4.32	2.61	1.04	12.14	5.21	5.44	1.65	1.33	.84	39.03
76	.14	3.76	.26	3.87	1.16	2.46	6.24	21.10	1.27	1.94	1.42*	1.27	*44.89
77	.09	.08	.94	9.80	2.45	3.49	8.40	2.52	8.08	.12	2.89	1.67	40.53
78	1.14	.73	2.52	.25	1.22	10.69	8.76	14.06	2.12	1.23	.43	1.24	44.39
79	.44	1.67	2.62	6.88	4.18	14.85	6.83	7.45	3.69	2.07	.79	.84	52.31
80	1.50	.42	1.55	8.75	3.12	10.05	10.56	8.52	2.39	3.02	.89	2.82	53.59
81	1.09	.34	1.40	1.92	2.61	3.06	17.49	14.11	5.02	1.79	1.47	.62	50.92
MEAN	1.047	1.104	2.131	4.471	3.352	5.109	13.186	9.975	5.793	1.972	1.673	1.038	50.848
S. D.	.975	1.121	1.732	3.610	2.013	4.015	5.956	6.301	4.314	1.447	.997	.925	11.730
TOTAL OBS	890	819	899	870	899	870	899	898	870	899	870	898	10581

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

53-81

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	62.5	21.7	5.8	4.4	2.4	1.1	.9	.6	.3					15.5	890	6.9	30.9	.5
FEB	71.0	20.4	2.9	3.4	1.2	.5	.1	.4						8.6	818	2.9	10.1	TRACE
MAR	87.1	9.9	1.8	.4	.6	.1	.1							3.0	899	.8	8.5	.0
APR	99.4	.5	.1											.1	870	TRACE	.1	.0
MAY	100.0														899	.0	.0	.0
JUN	100.0														870	.0	.0	.0
JUL	100.0														899	.0	.0	.0
AUG	100.0														899	.0	.0	.0
SEP	100.0														870	.0	.0	.0
OCT	99.4	.6													899	TRACE	TRACE	.0
NOV	91.6	5.5	.8	1.5	.5		.1							2.9	870	.8	5.3	.0
DEC	69.3	21.7	3.6	2.9	1.3	.4	.4	.2		.1				9.0	898	3.3	19.2	TRACE
ANNUAL	90.0	6.7	1.2	1.0	.5	.2	.1	.1	.0	.0				3.3	10581	14.7		

USAFETAC FORM 0-15-5 (OL A)  
OCT 78

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

471220 OSAN AB KO

STATION

STATION NAME

53-81

YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
YEAR													
53	* 1.8	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.6	* 1.8
54	2.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	3.4
55	4.0	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	4.0
56	2.5	3.8	2.1	TRACE	.0	.0	.0	.0	.0	.0	1.0	.5	3.8
57	.3	5.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	10.8	10.8
58	10.3	1.5	.3	.0	.0	.0	.0	.0	.0	.0	TRACE	.3	10.3
59	2.7	1.4	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	1.2	2.7
60	.5	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.3	1.0
61	3.8	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.3	3.8
62	.3	2.0	2.1	.1	.0	.0	.0	.0	.0	TRACE	.1	1.9	2.1
63	4.8	1.3	.1	TRACE	.0	.0	.0	.0	.0	.0	.5	TRACE	4.8
64	2.4	2.0	2.4	.0	.0	.0	.0	.0	.0	.0	TRACE	1.5	2.4
65	3.4	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.2	.4	3.4
66	.4	2.2	.3	.0	.0	.0	.0	.0	.0	TRACE	3.6	1.9	3.6
67	2.1*	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	3.7	3.7
68	1.3	5.4	.5	.0	.0	.0	.0	.0	.0	.0	2.2	3.0	5.4
69	9.9	4.7	3.5	TRACE	.0	.0	.0	.0	.0	.0	.0	2.3	9.9
70	3.5	TRACE	.4	.0	.0	.0	.0	.0	.0	.0	.9	.2	3.5
71	2.3	1.1	1.0	.0	.0	.0	.0	.0	.0	.0	.1	TRACE	2.3
72	.8	3.2	.6	.0	.0	.0	.0	.0	.0	.0	2.0	.2	3.2
73	3.7	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.7	5.0	5.0
74	5.5	3.1	2.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.8	5.5
75	.5	.3	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	1.8	1.8
76	1.8	.4	.6	.0	.0	.0	.0	.0	.0	.0	2.3*	3.7	* 3.7
77	.5	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	2.4	2.4
78	3.5	1.4	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.2	3.5
79	3.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	TRACE	.7	3.1
80	2.7	1.0	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	5.3	5.3
81	8.2	2.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.5	1.0	8.2
MEAN	3.10	1.70	.57	.00	.00	.00	.00	.00	.00	TRACE	.63	1.76	4.43
S.D.	2.669	1.669	.924	.017	.000	.000	.000	.000	.000	.000	.906	2.283	2.617
TOTAL OBS	890	818	899	870	899	870	899	899	870	899	870	898	10583

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 9-88-5 (OLA)

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

\*\*\*\*\*  
EXTREME VALUES  
\*\*\*\*\*  
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

47122D  
STATION

OSAN AB KO

STATION NAME

53-81

YEARS

## TOTAL MONTHLY SNOWFALL IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
53	* 4.1	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.6	* 4.7
54	5.3	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	10.7
55	14.7	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	14.8
56	4.7	6.5	2.3	TRACE	.0	.0	.0	.0	.0	.0	1.0	.8	15.3
57	.5	7.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	15.4	23.9
58	30.9	1.7	.3	.0	.0	.0	.0	.0	.0	.0	TRACE	.3	33.2
59	6.1	1.4	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	2.9	10.4
60	.7	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.4	2.1
61	10.4	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.5	10.9
62	.9	3.6	2.6	.1	.0	.0	.0	.0	.0	TRACE	.1	3.2	10.5
63	12.6	1.8	.2	TRACE	.0	.0	.0	.0	.0	.0	.5	TRACE	15.1
64	2.7	3.9	2.4	.0	.0	.0	.0	.0	.0	.0	TRACE	2.4	11.4
65	11.7	3.3	.4	.0	.0	.0	.0	.0	.0	.0	.2	.6	16.2
66	.7	2.5	.3	.0	.0	.0	.0	.0	.0	TRACE	3.6	2.3	9.4
67	3.6*	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	6.5	* 11.2
68	2.4	9.0	.5	.0	.0	.0	.0	.0	.0	.0	2.2	3.6	17.7
69	20.2	10.1	8.5	TRACE	.0	.0	.0	.0	.0	.0	1.8	7.7	48.3
70	4.3	TRACE	.6	.0	.0	.0	.0	.0	.0	.0	.9	.3	6.1
71	3.7	1.9	1.0	.0	.0	.0	.0	.0	.0	.0	.1	TRACE	6.7
72	2.0	7.6	.6	.0	.0	.0	.0	.0	.0	.0	5.3	.4	15.9
73	4.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	1.6	6.5	12.1
74	7.9	9.0	2.2	.0	.0	.0	.0	.0	.0	.0	1.4	5.9	26.4
75	.7	.3	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	3.1	4.1
76	2.7	.4	.6	.0	.0	.0	.0	.0	.0	.0	3.1*	5.6	* 12.4
77	.6	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	3.9	4.6
78	11.9	1.4	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.2	13.5
79	3.1	1.8	.2	.0	.0	.0	.0	.0	.0	.0	TRACE	.8	5.9
80	8.3	2.4	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	19.2	29.9
81	14.9	2.2	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.5	1.5	19.1
MEAN	6.86	2.93	.79	.00	.00	.00	.00	.00	.00	TRACE	.84	3.25	15.16
S.D.	7.055	3.146	1.685	.017	.000	.000	.000	.000	.000	.000	1.299	4.575	10.302
TOTAL OBS	890	818	899	870	899	870	899	899	870	899	870	898	10581

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

471220 OSAN AB KO

53-81

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	63.8	14.0	6.3	4.2	3.4	5.3	3.0							22.1	890			
FEB	76.9	13.2	3.2	2.3	2.2	1.1	.6	.5						9.9	819			
MAR	97.4	2.1	.3	.1										.4	899			
APR	99.9	.1													870			
MAY	100.0														899			
JUN	100.0														870			
JUL	100.0														899			
AUG	100.0														899			
SEP	100.0														870			
OCT	100.0														899			
NOV	97.8	1.4	.7	.1										.8	870			
DEC	82.2	10.0	4.0	1.3	.7	1.7	.1							7.8	898			
ANNUAL	93.2	3.4	1.2	.7	.5	.7	.1	.0						3.4	10582			

USAFETAC FORM 0-15-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

C  
2GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/HAC

## EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

471227  
STATION

OSAN AB KO

STATION NAME

53-81

YEARS

## DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
53	*	3	TRACE	0	0	0	0	0	0	0	0	0	*
54	TRACE	3	0	0	0	0	0	0	0	0	0	0	3
55	4	1	0	0	0	0	0	0	0	0	0	0	4
56	2	4	TRACE	0	0	0	0	0	0	0	TRACE	TRACE	4
57	2	3	TRACE	0	0	0	0	0	0	0	0	12	12
58	11	5	TRACE	0	0	0	0	0	0	0	0	0	11
59	3	TRACE	0	0	0	0	0	0	0	0	0	1	3
60	1	0	0	0	0	0	0	0	0	0	TRACE	TRACE	1
61	4	TRACE	0	0	0	0	0	0	0	0	0	TRACE	4
62	TRACE	TRACE	1	TRACE	0	0	0	0	0	0	0	1	1
63	7	TRACE	0	0	0	0	0	0	0	0	0	TRACE	7
64	3	1	1	0	0	0	0	0	0	0	0	1	3
65	6	1	0	0	0	0	0	0	0	0	0	0	6
66	0	3	0	0	0	0	0	0	0	0	0	1	0
67	4	0	0	0	0	0	0	0	0	0	0	4	4
68	1	4	0	0	0	0	0	0	0	0	0	1	1
69	12	13	2	0	0	0	0	0	0	0	0	2	12
70	3	TRACE	TRACE	0	0	0	0	0	0	0	TRACE	TRACE	3
71	2	TRACE	TRACE	0	0	0	0	0	0	0	0	TRACE	2
72	1	1	0	0	0	0	0	0	0	0	0	TRACE	1
73	TRACE	0	0	0	0	0	0	0	0	0	0	1	0
74	5	2	1	0	0	0	0	0	0	0	TRACE	2	5
75	TRACE	TRACE	0	0	0	0	0	0	0	0	0	2	0
76	2	0	TRACE	0	0	0	0	0	0	0	TRACE*	4	*
77	1	TRACE	TRACE	0	0	0	0	0	0	0	0	TRACE	1
78	3	1	0	0	0	0	0	0	0	0	0	0	3
79	3	4	0	0	0	0	0	0	0	0	0	1	3
80	3	4	0	0	0	0	0	0	0	0	0	6	3
81	12	4	0	0	0	0	0	0	0	0	0	1	12
MEAN	3.4	1.9	.2	TRACE	.0	.0	.0	.0	.0	.0	.2	1.5	4.1
S.D.	3.434	2.735	.464	.000	.000	.000	.000	.000	.000	.000	.491	2.589	3.440
TOTAL OBS	890	819	899	870	899	870	899	899	870	899	870	898	10582

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
AE 64

0-88-5 (OL A)



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

C PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- \*1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- \*2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

C \*Values for means and standard deviations do not include measurements from incomplete months.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES SURFACE WINDS

(FROM DAILY OBSERVATIONS)

471227 OSAN AB KO  
STATION STATION NAME

62-81  
YEARS

## DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS	
62												NW #33		
63	WNW 34W	28SW	28SW	43SSW	27ENE	22WSW	35NNE	21SW	26W	28NNW	34NNW	29	SW 43	
64	NNW 26NW	33NW	*20WSW	*34ESE	31SW	24SW	29NNW	33SSW	36SSW	28ENE	31NNW	25	SSW 36	
65	NW	30NNW	32W	32NNW	32WSW	33WSW	26SSW	34S	35NW	28NNW	27NW	26NNW	30	S 35
66	WNW 30SW	28W	30W	40SW	24W	21SSW	27W	34NE	24NNW	33NNW	*29NNW	*20	W 40	
67	WNW 22S	24W	*32NW	30NNW	19SW	19NNW	26NNW	30NE	20W	26NW	*20NW	24	W *32	
68	WNW 35W	27NW	35WSW	24WSW	27WSW	2520/	2629/	5130/	3131*	4528/	3824/	31	29/ 51	
69	25/ 3430/	2529/	3621*	4224/	3121/	28 8/	3020/	2921/	3228/	3125/	3729/	40	21* 42	
70	30/ 3128/	3927/	4030/	3123/	3710/	4222/	3220/	2822*	3131*	2228*	12			
71	31* 23		29* 2028*	1735*	3221*	18			20*	3131/	3421/	3036*	40	
72	32/ 3132/	3030/	4021/	3430/	2624/	34 9/	38 5/	3032*	3228*	3228/	3428/	32	30/ 40	
73	31/ 2531/	2422/	3628/	28 7/	2410*	2233/	3422/	3420*	3130*	2826/	4229/	34	26/ 42	
74	32/ 2131/	3631/	3322*	35		17/	2721/	2427/	3629/	2728/	2932/	26		
75	31/ 2533/	2730/	26 6/	2626/	2727/	2023/	2730/	3024/	2830/	1924/	2432/	23	30/ 30	
76	28/ 3010/	2031/	3127/	3628/	3324/	2623/	2329/	25 5/	3730/	3431/	2828/	44	28/ 44	
77	30/ 2230/	3226/	4826/	3023/	2921/	2020/	3917*	23 6/	2526/	2728/	2328/	19	26/ 48	
78	27/ 2727/	22 6/	2830/	35 4/	2422/	2833/	2211/	3531/	22 5/	2330/	2229/	35	30/ 35	
79	29/ 3430/	3229*	2827/	3832/	2817/	2621/	2828/	25 4/	2228/	3432/	3028/	25	27/ 38	
80	35/ 3121/	2328/	2221/	3121/	3810/	3621/	23 8/	2511/	2230/	3931/	2926/	35	30/ 39	
81	29/ 2529/	2928/	3226/	1925/	3024/	2926/	27 8/	19 4/	2030/	3228/	2524/	26	28/ 32	
									</					

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 44-1 (0-88-5 IOL A) (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	2.0	.6									4.7	3.9
NNE	1.4	.2	.1									1.8	2.9
NE	3.8	1.4	.2									5.5	3.3
ENE	9.6	7.3	.1									17.0	3.2
E	7.0	4.2	.5									11.6	3.5
ESE	1.0											1.0	1.8
SE	.2	.1										.4	2.7
SSE	.1	.8	.1									1.1	5.0
S	.5	.2	.4									1.1	4.4
SSW	.4	.2		.1								.7	4.3
SW	.4	.2										.6	3.2
WSW	.6	.2										.8	2.6
W	1.1	.6	.8									2.5	5.0
WNW	1.0	1.1	1.2	.8								4.1	7.5
NW	.7	1.8	1.7	.7								4.9	7.3
NNW	1.4	2.0	1.2	.4								5.0	5.5
VARBL													
CALM												37.2	
	31.2	22.7	7.0	2.0								100.0	2.6

TOTAL NUMBER OF OBSERVATIONS

839

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	2.3	1.6	.1									4.0	3.3
NNE	1.6	.5	.4									2.4	3.6
NE	4.6	1.7	.1									6.4	2.8
ENE	10.7	4.7										15.3	2.9
E	8.6	4.6	.2	.2								13.7	3.3
ESE	.5	.2										.7	3.0
SE	.1	.1	.1									.4	5.3
SSE	.4	.5	.5									1.3	5.0
S	.4	.1	.2									.7	4.2
SSW	.4											.4	2.0
SW	.1	.1										.2	3.0
WSW	.7	.1										.8	2.4
W	1.2	.8	.6									2.6	4.4
WNW	.2	.7	1.0									2.8	8.7
NW	1.4	1.4	1.9	.8								5.6	6.7
NNW	2.4	1.4	1.8	.4								6.0	5.3
VARBL													
CALM												36.7	
	35.5	18.6	7.0	2.3								100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

834

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	.8	1.2	.1								4.6	4.6
NNE	2.4	.4										2.8	2.5
NE	4.7	1.3										6.0	2.5
ENE	11.5	6.1										17.6	3.0
E	8.2	4.2	.6	.2								13.2	3.4
ESE	.8	.2	.1	.1								1.3	4.0
SE	.2	.2										.5	3.8
SSE	1.0	.1	.6									1.7	4.6
S	.2	.4	.1									.7	4.0
SSW	.4	.1										.5	3.3
SW	.7		.1									.8	3.0
WSW	.6											.6	2.0
W	1.4	.8	.2									2.5	3.9
WNW	.8	1.2	.5	.2	.2							3.0	4.4
NW	1.1	2.0	.5	.8								4.4	6.0
NNW	1.3	1.2	1.3	.4								4.2	5.9
VARBL			.1									.1	6.0
CALM												35.5	
	37.8	19.2	5.4	1.9	.2							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS 834

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JAN

MONTH

ALL WEATHER

CLASS

0900-1100

HOURE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.3	2.4	2.5									8.2	4.9
NNE	2.2	.2										2.4	2.4
NE	4.4	1.0										5.4	2.4
ENE	8.0	4.1	.6									12.7	3.2
E	4.4	1.9	.1	.4								6.8	3.5
ESE	1.1	.4	.2									1.7	3.8
SE	1.1	.8	.4									2.3	3.9
SSE	.4	1.0	.4									1.7	4.6
S	1.1	1.9	.4									3.3	4.2
SSW	.8	.5	.2									1.6	4.0
SW	.6	.6										1.2	3.7
WSW	1.1	.4										1.4	2.7
W	.8	.7	.4									1.9	4.4
WNW	1.3	1.0	1.4	.7	.2							4.7	7.2
NW	1.3	.8	1.8	1.6	.1							5.6	8.0
NNW	1.3	1.7	2.5	.2								5.7	6.0
VARBL			.5	.4								.8	10.3
CALM												32.6	
	33.2	19.2	11.4	3.2	.4							100.0	3.1

TOTAL NUMBER OF OBSERVATIONS

837

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220      OSAN AB KO      73-81      JAN

STATION      STATION NAME      YEARS      MONTH

ALL WEATHER      1200-1400

CLASS      HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.3	.6	.2	.1							3.9	5.2
NNE	1.0	.4										1.3	3.0
NE	1.0	1.0	.2									2.2	3.9
ENE	.5	.8	1.0	.5								2.7	7.1
E	.6	.8		.1	.1							1.7	5.5
ESE	.2	.5										.7	4.2
SE	.1	1.1	.5									1.7	5.3
SSE	.7	1.3	.5									2.5	4.9
S	1.9	3.0	.4	.1								5.4	4.4
SSW	1.6	2.7	.2	.2								4.8	4.3
SW	2.3	2.9	.8	.1								6.1	4.4
WSW	3.2	1.6	.8	.8								6.5	4.9
W	3.2	3.1	3.1	.7								10.2	5.7
WNW	3.3	2.7	4.1	3.7	.2							14.1	7.8
NW	2.9	1.8	3.2	3.3	.4							11.6	7.9
NNW	1.7	1.4	1.4	1.6	.1							6.2	7.5
VARBL		.1	3.5	1.3								4.9	9.2
CALM												13.6	
	25.8	26.5	20.3	12.8	1.0							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS      837

2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220

OSAN AB KO

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1500-1700

CLASS

MOON (L.E.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.6	.5									2.5	4.0
NNE	.5	.1	.1									.7	3.5
NE	.4	.4	.4									1.1	5.1
ENE	.4	.6	.4	.1								1.4	5.1
E	.6	.5	.6	.1								1.8	6.1
ESE	.4	.6										1.0	3.8
SE	.6	.5	.1									1.2	3.7
SSE	1.1	.8	.1	.1								2.2	3.9
S	1.2	1.2	.4									2.7	4.2
SSW	1.6	1.3	.2									3.1	3.8
SW	2.7	3.1	1.2	.6								7.6	5.2
WSW	2.5	1.9	1.4	.6								6.5	5.4
W	2.4	7.0	5.6	1.9	.1							17.1	6.7
WNW	2.0	4.8	7.6	5.0	.4							19.8	8.2
NW	1.8	3.9	5.3	2.9	.7							14.8	8.2
NNW	1.6	1.0	.8	.8								4.2	6.5
VARBL			2.6	.7								3.3	9.4
CALM												9.0	
	21.0	28.3	27.6	12.9	1.2							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

837



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.0	.5	.4									1.8	3.9
NNE	.4	.2	.2									.8	4.3
NE	1.0	.5										1.4	2.9
ENE	2.2	1.7	.2									4.1	3.5
E	1.2	.7	.2									2.2	3.6
ESE	.4	.1										.5	2.8
SE	.1	.1										.2	3.0
SSE	.7	.4										1.1	2.8
S	1.6	.5										2.0	2.8
SSW	2.5	1.2	.7									4.4	3.7
SW	1.2	1.7	.2									3.1	4.0
WSW	3.5	2.3	.1	.1								6.0	3.4
W	5.9	7.1	1.0	.6								14.5	4.2
WNW	2.4	3.5	2.4	1.2								9.4	5.9
NW	2.4	1.4	1.6	1.4	.1							6.9	6.7
NNW	.8	1.2	1.4	.5								3.9	6.5
VARBL													
CALM												37.6	
	27.0	23.0	8.5	3.8	.1							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JAN

MONTH

ALL WEATHER

CLASS

2100-2300

GROUP (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.2	.7	.2								3.8	4.8
NNE	.7	.4	.1									1.2	3.3
NE	2.3	1.1	.1									3.5	3.1
ENE	10.6	5.6										16.2	3.0
E	5.0	2.9	.1									8.0	3.1
ESE	.6	.1	.1									.8	3.1
SE	.4	.4										.7	3.5
SSE	.7	.8	.5									2.0	4.5
S	.6	1.0	.4									1.9	4.8
SSW	.6	.2										.8	2.9
SW	.6	.2										.8	2.7
WSW	1.0											1.0	2.3
W	1.1	1.3	1.1	.8	.2							4.5	7.5
WNW	1.0	1.4	1.1	.6								4.1	6.2
NW	1.4	1.2	2.3	.8	.1							5.9	7.0
NNW	1.1	1.6	3.1	.4								6.1	6.5
VARBL			.1									.1	10.0
CALM												38.5	
	29.3	19.4	9.7	2.9	.4							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220 STATION OSAN AB KO 73-81 YEARS JAN MONTH  
ALL WEATHER CLASS ALL HOUSE (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.3	.8	.1	.0							4.2	4.4
NNE	1.3	.3	.1									1.7	3.0
NE	2.8	1.0	.1									3.9	3.0
ENE	6.7	3.9	.3	.1								10.9	3.2
E	4.4	2.5	.3	.1	.0							7.4	3.5
ESE	.6	.3	.1	.0								1.0	3.4
SE	.4	.4	.1									.9	4.1
SSE	.6	.7	.3	.0								1.7	4.5
S	.9	1.0	.3	.0								2.2	4.1
SSW	1.0	.8	.2	.0								2.0	3.9
SW	1.1	1.1	.3	.1								2.6	4.4
WSW	1.6	.8	.3	.2								2.9	4.2
W	2.1	2.7	1.6	.5	.0							7.0	5.6
WNW	1.5	2.0	2.4	1.6	.1							7.7	7.5
NW	1.6	1.8	2.3	1.6	.2							7.5	7.5
NNW	1.5	1.4	1.7	.6	.0							5.2	6.2
VARBL		.0	.9	.3								1.2	9.4
CALM												30.1	
	30.1	22.1	12.1	5.2	.4							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 6684

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEAR

FEB  
MONTH

ALL WEATHER

CLASS

0000-0200

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.0	.7									2.9	4.7
NNE	.4	.4	.1									.9	3.9
NE	1.4	.7	1.0									3.1	4.8
ENE	7.6	5.9	.7									14.2	3.5
E	7.2	3.3	.4									10.9	3.1
ESE	.4	.1										.5	3.5
SE	.4	.3	.1									.8	4.8
SSE	.3	.3	.1									.7	4.6
S	1.7	.7										2.4	2.9
SSW	1.0	1.2	.7	.1								3.0	4.7
SW	1.4	.4										1.8	3.0
WSW	1.2	.5	.1	.1								2.0	3.8
W	2.6	1.7	.5	.3								5.1	4.0
WNW	1.2	2.1	.9	.8								5.0	6.1
NW	1.7	2.8	2.0	.8								7.2	6.0
NNW	.7	1.4	1.0	.1								3.3	5.9
VARBL													
CALM												36.2	
	30.4	22.7	8.4	2.2								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

FEB  
MONTH

ALL WEATHER

CLASS

0300-0500

GROUP (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.2	.3									2.5	3.8
NNE	1.2	.5										1.7	2.9
NE	3.3	1.2	.4	.1								5.0	3.5
ENE	8.4	4.2	.5	.1								13.3	3.2
E	8.7	4.9	.7	.3								14.4	3.6
ESE	.4	.1										.5	2.5
SE	.3	.1	.1									.5	4.5
SSE	.5	.1										.7	3.0
S	.7	.5	.1									1.3	4.2
SSW	.7	.8										1.4	3.3
SW	1.7	1.0	.3									3.0	3.3
WSW	1.2	.4	.1									1.7	2.8
W	1.6	.9	.3	.1								2.9	4.1
WNW	1.3	1.3	1.3	.5								4.5	6.2
NW	1.3	1.4	2.5	.8	.1							6.2	7.3
NNW	1.6	1.0	.9	.1								3.7	4.8
VARBL				.1								.1	11.0
CALM												36.6	
	33.7	19.8	7.5	2.2	.1							100.0	2.4

TOTAL NUMBER OF OBSERVATIONS

762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

FEB

STATION

STATION NAME

YEAR

MONTH

ALL WEATHER

0600-0800

CLASS

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.8	.3									1.7	4.3
NNE	1.1	.9	.1									2.1	3.7
NE	3.3	.9	.1									4.3	2.9
ENE	8.9	6.3	.8									16.0	3.3
E	8.9	5.3	.5	.3								15.0	3.5
ESE	.5	.4	.1									1.1	3.3
SE	.3	.4										.9	3.0
SSE	.7	.3	.3									1.2	4.4
S	.4	.7	.1									1.2	4.2
SSW	.5	.1	.1									.8	3.7
SW	.3	.3	.1									.7	3.8
WSW	.8											.8	2.2
W	1.6	1.4	.3	.1								3.4	4.2
WNW	.7	.8	.7	.8								2.6	6.8
NW	.7	1.1	2.2	.5								4.5	7.4
NNW	1.2	1.8	1.7	.3								5.0	6.1
VARBL													
CALM												38.8	
	30.6	21.4	7.5	1.7								100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

761

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEAR

FEB

MONTH

ALL WEATHER

CLASS

0900-1100

GROUP (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	1.0	1.2	.3								4.9	4.8
NNE	1.0	.1										1.2	1.7
NE	2.5	.7	.5									3.7	3.4
ENE	6.7	3.8	.8	.1								11.4	3.6
E	3.5	3.0	1.2	.3	.1							8.1	4.6
ESE	.7	.8	.3									1.7	4.2
SE	.1	1.3	.5									2.0	5.9
SSE	.8	1.3		.1								2.2	4.3
S	.7	2.6	1.0									4.3	5.2
SSW	.5	.7	.5									1.7	5.5
SW	.9	1.0	.1									2.1	3.9
WSW	1.2	.7	.1	.3								2.2	4.9
W	1.6	1.8	1.3									4.7	5.1
WNW	.9	1.6	1.4	1.2								5.1	7.3
NW	1.0	1.8	3.0	1.7	.3							7.9	8.0
NNW	.5	1.4	3.0	1.2								6.2	7.7
VARBL			.9	.4								1.3	10.2
CALM												29.3	
	25.1	23.8	16.0	5.5	.4							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

1200-1400

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.4	.1									2.5	4.3
NNE	.4	.9	.1									1.4	4.1
NE	.7	.8	.5									2.0	5.0
ENE	.8	1.4	1.0									3.3	5.3
E	.3	.7	1.2	.5								2.6	8.2
ESE	.1	.5	.1									.8	5.0
SE	.8	1.0	.3									2.1	4.1
SSE	.7	1.8	.9									3.4	5.2
S	.8	2.6	.5									3.9	4.6
SSW	2.4	2.0	.5	.3								5.1	4.4
SW	1.7	3.3	1.0	.3								6.3	5.0
WSW	1.6	2.4	1.7	.4								6.0	5.8
W	2.4	2.5	3.7	2.0	.7							11.2	7.9
WNW	2.0	2.6	4.5	2.8	.7							12.5	8.3
NW	2.1	2.5	4.2	3.1	.5	.1						12.6	8.6
NNW	.9	1.6	1.3	.3		.1						4.2	6.6
VARBL		.1	7.2	2.8								9.8	9.3
CALM												10.2	
	18.4	28.2	29.0	12.1	1.8	.3						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

762



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1500-1700

CLASS

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.2	.1									2.6	3.9
NNE	.7	.3	.4									1.3	4.5
NE	.7	.3	.3									1.2	4.7
ENE	.9	.8	1.0	.1								2.9	6.1
E	.8	.7	.4	.3								2.1	5.5
ESE	.4	.4	.3									1.0	4.9
SE	.4	.3	.1									.8	4.5
SSE	.3	.3	.5									1.0	5.5
S	.5	.9										1.4	3.8
SSW	1.0	1.3	.7	.1								3.1	6.3
SW	.5	.7	.9	.7	.1							2.9	8.0
WSW	1.4	1.6	2.9	.9								6.8	7.2
W	2.1	6.0	10.8	5.8	.1							24.8	8.4
WNW	.9	3.0	9.3	5.9	.8							19.9	9.6
NW	1.3	2.6	3.3	2.1	.4							9.7	8.1
NNW	1.2	.9	.5	.5	.1							3.3	6.4
VARBL		.1	3.7	2.0	.3							6.0	10.7
CALM												8.9	
	14.4	21.3	35.2	18.4	1.8							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

762

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1800-2000

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.4	.3									1.4	3.8
NNE	.7	.4										1.0	3.5
NE	.9	.3	.7									1.8	4.4
ENE	1.6	1.0	.5	.1								3.3	4.6
E	1.6	1.8	.4									3.8	4.2
ESE	.5	.1	.1									.8	3.7
SE		.1										.1	5.0
SSE	.5	.3										.8	3.0
S	.3	1.0										1.3	3.7
SSW	1.3	.7	.9									2.9	5.0
SW	2.4	3.1	.8	.1	.1							6.6	4.4
WSW	2.9	3.7	.5	.1								7.2	4.1
W	5.5	11.5	5.4	.8								23.2	5.4
WNW	3.0	4.6	4.2	1.7	.1							13.6	6.6
NW	1.0	2.2	2.8	1.2								7.2	7.2
NNW	.8	.7	.5	.1								2.1	5.3
VARBL			.1	.4								.5	12.8
CALM												22.2	
	23.8	32.0	17.2	4.6	.3							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEAR

FEB  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.3	.4									2.6	4.6
NNE	1.0	.3	.1									1.4	3.3
NE	1.0	.5	.8	.3								2.6	5.9
ENE	5.8	1.8	.9	.3								8.8	3.7
E	3.4	2.8	.4									6.6	3.5
ESE	.3		.1									.4	4.7
SE	.1	.5										.7	4.2
SSE	.5		.1									.7	3.6
S	2.0	.7	.1									2.8	2.8
SSW	2.4	1.0	.7									4.1	3.6
SW	1.6	1.4	.1									3.1	3.4
WSW	.9	2.1	.5	.1								3.7	4.9
W	3.5	2.8	.5	.4								7.2	4.1
WNW	1.8	2.5	.9	.5	.1							5.9	5.8
NW	1.3	2.1	2.9	.9								7.2	6.7
NNW	.8	1.8	.8	.4								3.8	6.1
VARBL			.1									.1	7.0
CALM												38.3	
	27.4	21.7	9.6	2.9	.1							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

762

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.1	.4	.0								2.6	4.4
NNE	.8	.5	.1									1.4	3.4
NE	1.7	.7	.5	.0								3.0	4.0
ENE	5.1	3.2	.8	.1								9.1	3.7
E	4.3	2.8	.6	.2	.0							7.9	3.9
ESE	.4	.3	.1									.9	4.0
SE	.3	.5	.1									1.0	4.6
SSE	.5	.5	.2	.0								1.3	4.5
S	.9	1.2	.2									2.3	4.1
SSW	1.2	1.0	.5	.1								2.8	4.5
SW	1.3	1.4	.4	.1	.0							3.3	4.5
WSW	1.4	1.4	.8	.2								3.8	5.2
W	2.6	3.6	2.8	1.2	.1							10.3	6.3
WNW	1.5	2.3	2.9	1.7	.2							8.6	7.7
NW	1.3	2.1	2.9	1.4	.2	.0						7.8	7.6
NNW	1.0	1.3	1.2	.4	.0	.0						3.9	6.3
VARBL		.0	1.5	.7	.0							2.2	9.9
CALM												27.6	
	25.5	23.9	16.3	6.2	.6	.0						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 6095

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.8	.2									1.7	4.1
NNE	.7	.2										1.0	3.0
NE	2.6	.6	.1									3.3	2.6
ENE	8.4	3.3	.8									12.5	3.1
E	6.9	2.7	1.1									10.8	3.3
ESE	.6	.2	.2									1.1	3.8
SE	.2	.1										.4	2.7
SSE	.5	.6										1.1	3.6
S	1.8	1.1	.4									3.2	3.7
SSW	1.1	.8	.2	.1								2.3	4.3
SW	1.8	1.2	.1	.2								3.3	4.0
WSW	1.1	1.1	.1	.2								2.5	4.7
W	3.8	1.8	1.1	.8	.1							7.6	5.1
WNW	1.2	1.4	.6	.5	.1							3.8	6.0
NW	1.1	2.4	.8									4.3	4.9
NNW	.8	1.2	.5	.1								2.6	5.1
VARB													
CALM												38.5	
	33.2	19.7	6.3	2.0	.2							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB MO

STATION NAME

73-81

YEARS

MAR

MONTH

ALL WEATHER

0300-0500

HOURLY (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	.7	.2									2.5	3.3
NNE	.2	.4	.2									.8	5.4
NE	3.2	.4	.1									3.7	2.6
ENE	9.0	3.7	.2									12.9	2.9
E	8.6	3.9	1.0									13.5	3.3
ESE	.5	.2	.2									1.0	4.6
SE	.1	.1										.2	3.5
SSE	1.0	.5										1.4	2.8
S	.6	.7	.1									1.4	4.1
SSW	.7	.5	.1	.1								1.4	4.6
SW	1.9	1.4										3.3	3.0
WSW	.6	.6	.5									1.7	4.8
W	.8	1.7	.7	1.0								4.2	6.9
WNW	1.2	.8	.5	.5	.1							3.1	6.2
NW	1.3	1.2	1.2	.4								4.1	6.0
NNW	.7	1.2	.2	.1								2.3	4.8
VARBL													
CALM												42.3	
	32.1	18.1	5.4	2.0	.1							100.0	2.3

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.6										1.9	3.0
NNE	1.4	.5										1.9	2.9
NE	4.3	1.7	.6	.1								6.7	3.5
ENE	9.3	2.8	.5									12.6	2.9
E	10.6	2.6	.2									13.5	2.7
ESE	.8	.1	.1									1.1	2.8
SE	.5	.4	.1									1.0	4.0
SSE	.5	.5	.1									1.1	3.8
S	.7	1.3	.4									2.4	4.6
SSW	.6	1.1		.2								1.9	4.9
SW	1.0	.5	.4	.1								1.9	4.6
WSW	.6	.2	.1	.1								1.1	5.2
W	1.9	1.6	1.0	.6								5.0	5.5
WNW	1.1	1.1	.7	.4	.1							3.3	5.8
NW	.7	1.0	.7	.2								2.6	6.0
NNW	.7	.4	.5	.2								1.8	6.1
VARBL													
CALM												40.2	
	36.1	16.1	5.4	2.0	.1							100.0	2.3

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	.7	.5	.4								3.2	4.9
NNE	1.9	.2	.1									2.3	2.5
NE	3.7	.7	.5	.2								5.1	3.3
ENE	3.5	1.4	1.4	.2								6.6	4.6
E	2.9	2.0	2.0	.1								7.0	5.0
ESE	1.1	.4	.4	.1								1.9	4.3
SE	.8	1.0	1.1									2.9	5.2
SSE	1.2	.7	.7									2.6	4.8
S	2.4	2.0	.6	.1								5.1	4.4
SSW	2.4	1.4	.7									4.5	3.8
SW	2.9	1.9	1.0	.4		.1						6.2	4.9
WSW	1.7	1.6	.1									3.3	3.5
W	2.2	1.8	1.1	.6	.2							5.9	6.0
WNW	1.9	1.1	1.9	2.0	.1							7.0	7.8
NW	1.6	1.6	2.0	1.2								6.3	6.9
NNW	1.4	1.2	1.1	1.2	.1							5.0	7.4
VARBL			1.1	.5								1.6	9.6
CALM												23.3	
	33.1	19.7	16.2	7.0	.5	.1						100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

837



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1200-1400

CLASS

DOOR (L.E.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7	.5	.1								2.6	4.3
NNE	.5	.5	.6	.1								1.7	6.0
NE	.6	.8	.1	.5								2.0	6.1
ENE	.2	1.7	.7	.4	.1							3.1	6.9
E	.4	1.0	1.7	.4								3.3	7.3
ESE	.6	.8	1.3	.2								3.0	6.6
SE	.5	1.2	.4	.2								2.3	5.7
SSE	.6	.8	.7									2.2	5.4
S	1.1	1.2	.2									2.5	4.3
SSW	1.3	3.0	.2	.2								4.8	4.6
SW	2.4	2.4	1.2	.2	.1							6.3	5.2
WSW	2.7	3.3	1.9	.7	.5		.1					9.3	6.4
W	1.9	5.9	4.7	2.7	.5	.1						15.8	7.7
WNW	2.7	3.0	2.9	3.6	.4							12.5	8.0
NW	2.0	1.6	1.3	3.0	.4							8.2	8.6
NNW	1.2	1.3	.6	.4								3.5	5.6
VARB	.1	1.0	7.9	1.7	.4	.1						11.1	9.3
CALM												5.7	
	20.2	30.1	26.9	14.5	2.3	.2	.1					100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEAR

MAR  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.5	1.0	.1								2.4	5.6
NNE	.7	.1	.4									1.2	4.3
NE	.4	.6	.4	.1								1.4	6.1
ENE	.2	.7	.4									1.3	5.5
E	.4	1.1	1.2	.2								2.9	6.6
ESE	.6	.8	1.4	.1								3.0	6.4
SE	.4	.4	.2									1.0	5.0
SSE	.5	.2	.2									1.0	3.9
S	.8	.6										1.4	3.0
SSW	.8	.4										1.2	2.9
SW	1.2	1.3	.8	.8	.1	.1	.1					4.8	7.7
WSW	.6	1.9	2.9	1.1	.1	.1						6.7	7.9
W	1.6	5.0	11.2	8.2	.7	.1						26.9	9.4
WNW	1.8	4.7	9.4	6.2	.8							22.9	9.0
NW	1.3	1.7	4.1	1.3	.6							9.0	8.2
NNW	1.0	1.1	.8	.4								2.9	8.7
VARBL	.1	.2	3.6	1.6	.4							5.9	9.9
CALM												4.8	
	13.1	21.3	37.6	20.2	2.7	.4	.1					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

637

0  
2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB MO  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.7	.4	.5									1.6	4.4
NNE	.8	.1	.1									1.1	2.8
NE	.8	.2										1.1	2.9
ENE	1.2	.5										1.7	2.6
E	1.0	.8	1.0									2.8	5.4
ESE	.4	.8	.2									1.4	4.5
SE	.2	.1	.4									.7	5.5
SSE			.1									.1	7.0
S	.5	.4										.8	2.9
SSW	1.2	.6	.2									2.0	3.5
SW	1.7	1.4	1.0									4.1	4.7
WSW	1.6	3.7	1.8	.6								7.7	6.0
W	6.1	9.0	8.7	4.9	.1	.1						29.0	6.9
WNW	4.3	6.1	4.7	1.8								16.9	6.0
NW	3.0	2.8	1.8	.6								8.1	5.4
NNW	1.1	1.2	.7									3.0	4.2
VARBL			.5	.4	.1							1.0	11.4
CALM												17.0	
	24.6	28.1	21.7	8.3	.2	.1						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

835

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAR

MONTH

ALL WEATHER

CLASS

2100-2300

GROUP (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	.7	1.1										1.8	6.0
NNE	.6	.1										.7	2.7
NE	1.6	.5										2.0	2.6
ENE	4.7	1.9	.6									7.2	3.2
E	4.8	1.2	1.2	.1								7.3	3.8
ESE	.6	.4	.1									1.1	3.6
SE	.6	.1	.1									.8	3.4
SSE	.5	.1	.1									.7	3.5
S	3.0	.6		.1								3.7	2.9
SSW	2.9	1.8	.2	.1								5.0	3.5
SW	3.0	1.7	.2		.1							5.0	3.7
WSW	2.2	1.6	.5	.2								4.4	4.5
W	3.8	3.3	2.4	1.3								10.9	5.7
WNW	1.6	1.9	1.1	.6								5.1	5.7
NW	.8	2.3	2.0	.4								5.5	6.2
NNW	.6	.7	.6	.1								2.0	5.5
VARB													
CALM												36.7	
	31.8	19.2	9.2	3.0	.1							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.7	.4	.1								2.2	4.3
NNE	.9	.3	.2	.0								1.3	3.6
NE	2.2	.7	.2	.1								3.2	3.8
ENE	4.6	2.0	.6	.1	.0							7.2	3.5
E	4.4	1.9	1.2	.1								7.6	3.9
ESE	.6	.5	.5	.1								1.7	5.1
SE	.4	.4	.3	.0								1.2	4.9
SSE	.6	.4	.3									1.3	4.2
S	1.4	1.0	.2	.0								2.6	3.8
SSW	1.4	1.2	.2	.1								2.9	4.0
SW	2.0	1.5	.6	.2	.0	.0	.0					4.3	4.8
WSW	1.4	1.7	1.0	.4	.1	.0	.0					4.6	5.9
W	2.8	3.8	3.9	2.8	.2	.0						13.2	7.3
WNW	2.0	2.5	2.7	1.9	.2							9.4	7.4
NW	1.5	1.8	1.7	.9	.1							6.0	6.8
NNW	.9	1.0	.6	.3	.0							2.9	5.7
VARB	.0	.1	1.6	.5	.1	.0						2.4	9.6
CALM												26.0	
	28.0	21.5	16.1	7.4	.8	.1	.0					100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

6692

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

APR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0000-0200

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.6	.5									1.6	4.7
NNE	1.0	.2	.2									1.5	3.5
NE	2.0	.4	.1		.1							2.6	3.5
ENE	8.3	3.0	.5	.2								12.0	3.3
E	6.9	4.3	1.0									12.2	3.6
ESE	.2	.2	.5									1.0	6.4
SE	1.0	.5										1.5	2.9
SSE	1.9	.5	.2									2.6	3.4
S	1.9	1.2	.4									3.5	3.6
SSW	3.1	1.5	1.0	.1								5.7	3.9
SW	1.7	.7	.6	.5								3.6	5.2
WSW	1.5	1.1	.9	.1								3.6	4.9
W	2.3	1.5	1.6	.5								6.0	5.4
WNW	.7	.5	.6									1.9	4.9
NW	1.2	.1										1.4	2.4
NNW	.2	.6	.2									1.1	4.9
VARBL													
CALM												38.4	
	34.6	17.0	8.4	1.5	.1							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

APR

MONTH

ALL WEATHER

CLASS

0300-0500

ROUTE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.6	.4									2.2	3.7
NNE	1.2	.4										1.6	2.9
NE	2.3	1.2	.4									4.0	3.7
ENE	10.1	2.0	1.4	.2								13.7	3.4
E	14.2	3.3	.7	.1								18.4	3.0
ESE	1.0	.2	.4									1.6	4.1
SE	.6	.9										1.5	4.0
SSE	.9	1.0	.4									2.2	4.2
S	1.7	1.0	.4	.1	.1							3.3	4.5
SSW	1.5	.6	.2	.1								2.5	4.1
SW	1.1	.6	.6									2.3	4.5
WSW	.6	.5	1.1	.5								2.7	7.3
W	1.4	1.5	1.7	.6								5.2	6.4
WNW	.4	.6	.7	.2	.1							2.1	7.4
NW	.6	.2										.9	2.9
NNW	.5	.2	.2									1.0	4.4
VARB			.1									.1	8.0
CALM												34.6	
	39.4	15.0	8.8	2.0	.2							100.0	2.6

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

APR  
MONTH

ALL WEATHER

CLAS

0600-0800

MOVS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.7	.2									1.6	4.1
NNE	1.1	1.2	.1									2.5	3.6
NE	3.7	1.5	.9									6.1	3.6
ENE	11.3	2.2	.7	.1								14.4	3.0
E	10.1	3.3	1.2	.2								15.0	3.4
ESE	1.4	1.1	.1									2.6	3.4
SE	1.0	1.0	.1									2.1	3.6
SSE	.9	1.1	.5									2.5	4.4
S	1.4	.9	.5	.1								2.8	4.7
SSW	.9	.4	.7	.5								2.5	6.6
SW	.6	.7	.4	.2								2.0	5.7
WSW	.6	1.5	.4	.4								2.8	5.9
W	1.2	.5	1.2	.2								3.2	5.9
WNW	.6	1.4	.2	1.0								3.2	7.0
NW	.1	.9	.1	.1								1.2	5.5
NNW	.5	.4	.2									1.1	4.1
VARBL		.4	.4									.7	6.5
CALM												33.7	
	36.0	19.2	8.2	3.0								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 808



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	2.0	1.1	.5									3.6	4.0
NNE	1.5	.5	.7									2.7	4.4
NE	1.7	.9	.5	.1								3.2	4.2
ENE	2.1	1.5	1.4	.5								5.4	5.7
E	2.5	2.8	2.1	1.1	.1							8.7	6.2
ESE	1.1	1.5	.5	.1								3.2	4.6
SE	1.2	1.9	.4									3.5	4.2
SSE	1.2	4.0	2.2									7.4	5.5
S	2.5	4.1	.9	.2								7.7	4.6
SSW	1.5	2.3	1.0	.7	.4							5.9	6.8
SW	1.6	1.7	1.4	1.5	.4							6.6	7.8
WSW	1.7	1.7	1.0	.6		.1						5.2	6.2
W	3.0	2.8	.7	.9	.7							8.2	6.4
WNW	1.5	.5	.7	.9	.1							3.7	7.3
NW	1.2	.9	.6	.2	.1							3.1	5.6
NNW	.7	.7	.6	.1	.1							2.3	6.5
VARBL	.1	.5	1.7	.5								2.8	8.3
CALM												16.8	
	27.2	29.4	16.9	7.5	2.0	.1						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.9	.2	.1								2.0	5.2
NNE	.7	.4	.4									1.5	4.3
NE	.1	.2	.7	.6								1.7	9.5
ENE	.5	1.5	.2	.6								2.8	6.6
E	.6	1.5	2.3	1.2								5.7	7.7
ESE	.7	.4	.5	.1								1.7	5.1
SE	.5	.5	.4	.1								1.5	5.4
SSE	1.0	2.1	.5	.1								3.7	4.9
S	2.1	3.7	1.0	.2								7.0	4.8
SSW	1.4	2.5	1.2	1.2	.2							6.5	7.0
SW	1.7	3.6	2.0	1.2	.6	.1						9.3	7.4
WSW	1.4	2.5	3.0	2.7	.1	.2						9.9	8.6
W	3.7	4.6	2.7	3.3	1.1	.6						16.0	8.5
WNW	2.1	2.1	2.0	2.0	.6	.1						8.9	8.1
NW	1.5	1.2	.9	.2								3.8	5.2
NNW	.9	1.0	1.5	.1								3.5	6.1
VARBL	.1	.5	6.3	2.7	.2							9.9	9.8
CALM												4.6	
	19.8	29.0	25.8	16.8	3.0	1.1						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.0	.1	.1	.1							2.2	5.1
NNE	.4	.1	.5	.1								1.1	6.7
NE	.5	.6	.4	.6								2.1	7.5
ENE	.9	.1	.5	.7								2.2	7.6
E	.6	1.0	2.2	.5								4.3	7.3
ESE	.1	.2	.4	.4								1.1	8.3
SE	.4	.5	.4									1.2	5.1
SSE	.5	.2	.9	.2								1.9	7.1
S	.4	.7	.4									1.5	5.3
SSW	.7	.7	1.4	1.2	.1							4.2	8.9
SW	1.4	2.5	2.0	1.7	.7	.1						6.4	8.5
WSW	1.5	2.3	4.2	1.1	.6							9.8	7.9
W	2.8	6.2	9.8	8.6	1.5	.6						29.5	9.4
WNW	1.1	5.1	6.8	2.5	.4							15.8	8.0
NW	1.0	1.5	2.1	.6		.1						5.3	7.2
NNW	.4	1.1	.7	.1								2.3	5.9
VARB.		.2	3.1	1.2	.4							4.9	10.0
CALM												2.1	
	13.5	24.2	35.7	19.9	3.8	.9						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

APR

MONTH

ALL WEATHER

CLASS

1800-2000

TIME (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.4	.5	.1								2.2	4.3
NNE	.5	.1	.2	.5								1.4	7.6
NE	.6	.1	.6	.2								1.6	6.2
ENE	.6	1.1	.4	.2								2.4	5.7
E	.7	.9	1.7	.1								3.5	6.5
ESE	.4	.7	.4									1.8	5.1
SE	.2	.6	.4	.1								1.4	5.7
SSE	.4	.2	.5									1.1	5.9
S	.5	.5	.4									1.4	4.6
SSW	.2	1.1	2.4	.6								4.3	7.4
SW	.2	2.5	3.0	.7								6.4	7.3
WSW	1.4	2.8	4.0	.7								8.9	6.7
W	7.3	8.8	9.8	3.2	.5							29.6	6.6
WNW	4.0	5.3	3.3	.7								13.4	8.4
NW	2.7	2.7	1.2									6.7	4.3
NNW	1.6	1.4	.4									3.3	3.6
VARBL			.1									.1	18.0
CALM												10.9	
	22.6	29.3	29.2	7.4	.5							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

808

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220 OSAN AB KO

73-81

APR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

2100-2300

CLASS

GROUP (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	.1	.1								1.7	4.5
NNE	.5											.5	1.8
NE	1.6	1.0	.4	.2								3.2	6.7
ENE	2.2	1.4	1.0	.2	.1							4.9	5.0
E	4.0	1.7	.9									6.6	3.8
ESE	.6	.4		.4								1.4	5.9
SE	.6	.1	.4									1.1	4.1
SSE	1.2	.4	.4									2.0	4.2
S	2.6	1.4	.2									4.2	3.4
SSW	2.1	3.6	.9	.1								6.7	4.5
SW	2.8	3.7	1.7	.2	.1							8.7	5.1
WSW	2.2	3.2	.9	.7								7.0	5.2
W	4.7	4.2	2.5	.7								12.1	4.9
WNW	2.0	.6	.6									3.2	3.8
NW	1.0	.7	.1									1.9	3.2
NNW	.7	.2										1.0	2.5
VARBL													
CALM												33.9	
	29.7	23.4	10.0	2.8	.2							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

ALL  
WINDS (L.S.V.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.0	.8	.3	.1	.0							2.1	4.4
NNE	.9	.4	.3	.1								1.6	4.6
NE	1.6	.7	.5	.2	.0							3.1	4.7
ENE	4.5	1.6	.8	.4	.0							7.2	4.0
E	5.0	2.4	1.5	.4	.0							9.3	4.4
ESE	.7	.6	.3	.1								1.8	5.0
SE	.7	.7	.2	.0								1.7	4.3
SSE	1.0	1.2	.7	.0								2.9	5.0
S	1.6	1.7	.5	.1	.0							3.9	4.4
SSW	1.4	1.6	1.1	.6	.1							4.8	6.1
SW	1.4	2.0	1.5	.8	.2	.0						5.9	6.8
WSW	1.4	2.0	1.9	.9	.1	.0						6.2	6.9
W	3.3	3.8	3.8	2.3	.5	.2						13.7	7.3
WNW	1.5	2.0	1.9	.9	.2	.0						6.5	6.9
NW	1.2	1.0	.6	.2	.0	.0						3.0	5.1
NNW	.7	.7	.5	.0	.0							2.0	5.0
VARB.	.0	.2	1.5	.6	.1							2.3	9.5
CALM												21.9	
	27.8	23.3	17.9	7.6	1.2	.3						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 6473

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEAR

MAY  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.2										1.4	2.7
NNE	.8	1.1	.2									2.2	4.0
NE	2.2	1.0	.6	.1								3.8	3.8
ENE	7.0	3.3	.1									10.5	3.1
E	8.4	2.4	.2									11.0	2.8
ESE	.7	.1	.1									1.0	3.0
SE	.6	.1	.2									1.0	4.3
SSE	1.0											1.0	1.9
S	1.2	1.2	.5	.2								3.1	8.3
SSW	3.0	.8	.6		.1							4.5	3.8
SW	2.4	1.8	1.0	.4	.1							5.6	4.9
WSW	1.6	1.3	.5	.7								4.1	8.7
W	3.3	2.0	1.0									6.3	4.8
WNW	1.0	.1	.1									1.2	3.1
NW	.4		.2									.6	4.2
NNW	.5	.4	.1									1.0	4.3
VARB		.1		.1								.2	9.5
CALM												41.6	
	35.1	16.0	5.5	1.6	.2							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLIM

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.2										1.4	2.4
NNE	1.1	.1	.1									1.3	2.8
NE	3.1	.8	.7	.2								4.9	3.9
ENE	9.7	4.7	.1									14.5	3.0
E	11.2	4.3	.5									16.0	3.1
ESE	1.1	.6	.1									1.8	3.3
SE	.6	.1	.2									1.0	3.9
SSE	1.3	.1										1.4	2.3
S	1.8	.5	.4	.1								2.8	4.0
SSW	1.3	.8	.6	.4								3.1	5.0
SW	1.1	.7	.5									2.3	4.2
WSW	1.3	1.1	.6	.7								3.7	6.3
W	1.4	1.0	1.1	.2								3.7	5.3
WNW	.4	.5										.8	3.9
NW	.5	.2	.1									.8	3.4
NNW	.5	.2										.7	2.7
VARBL				.1								.1	12.0
CALM												39.6	
	37.6	16.0	5.0	1.8								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

836



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAY

MONTH

ALL WEATHER

CLASS

0600-0600

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥54	%	MEAN WIND SPEED
N	1.3	1.0										2.3	3.3
NNE	.6	.5	.1									1.2	3.5
NE	4.8	1.4	.5	.1								6.6	3.2
NNE	12.9	4.8	.6									18.3	3.5
E	7.4	5.6	.6	.1								13.8	3.5
ESE	1.2	1.1	.4									2.6	4.0
SE	.6	1.1	.2									1.9	4.4
SSE	.8	.6	.1									1.6	3.9
S	2.9	.6	.7									4.2	3.7
SSW	1.2	.7	.4		.2							2.8	3.6
SW	.8	1.0	1.3		.1							3.2	3.4
WSW	.7	1.1	.8									2.6	3.4
W	2.0	2.2	1.4	.2								5.9	3.1
WWW	.7	.8	.1	.2								1.6	3.3
NW	.5	.4	.1									1.0	3.1
NNW	.2		.1									.4	3.7
VARS.			.1									.1	7.8
CALM												30.4	
	38.5	22.4	7.7	.7	.5							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	.5	.7									3.1	4.0
NNE	1.8	.8	.4	.2								3.2	4.5
NE	2.4	.4	1.0									3.7	4.3
ENE	2.5	1.2	1.1	.2								5.0	4.6
E	2.2	3.0	1.1	.1								6.3	4.6
ESE	.7	1.3	.5	.2								2.8	5.3
SE	1.4	1.4	.7									3.6	4.7
SSE	1.2	1.1	.8									3.1	4.5
S	3.5	3.2	.6	.2								7.8	4.1
SSW	2.8	2.2	1.4	.1	.2	.2						6.9	5.8
SW	2.2	3.1	.8	.6								6.7	5.8
WSW	3.8	2.0	1.8	1.1								8.7	5.3
W	3.5	1.7	2.9	1.3								9.3	6.2
WNW	2.0	1.0	1.1	.2								4.3	4.8
NW	1.4	1.3	.1									2.9	3.5
NNW	1.4	.5	.6									2.5	4.0
VARBL	.1	.1	2.6	.7	.1							3.7	4.1
CALM												16.4	
	39.9	24.8	18.2	8.1	.4	.2						100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

835

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEAR

MAY  
MONTH

ALL WEATHER  
CLASS

1200-1400  
GROUP (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.6	.1									2.0	3.2
NNE	.5	.6	.5									1.6	5.0
NE	.7	.5	1.1	.1								2.4	6.6
ENE	.7	2.0	.8	.1	.2							3.9	6.4
E	.4	2.2	1.6									4.1	6.1
ESE	1.0	.8	.6	.1								2.5	5.0
SE	.5	1.1	.1	.1								1.8	5.0
SSE	1.0	.8	.1									1.9	3.6
S	2.0	1.9	.5	.2								4.7	4.6
SSW	3.1	2.2	.6	.5		.4						6.7	8.7
SW	1.8	3.7	2.0	.6	.1							8.3	6.8
WSW	3.1	3.9	2.5	1.6		.4						11.5	6.8
W	3.1	7.7	4.4	3.2	.7							19.1	7.1
WNW	1.1	2.9	2.8	.2	.1							7.1	6.3
NW	2.3	1.9	.8									5.0	4.5
NNW	1.7	.6	.4	.4								3.0	4.6
VARBL	.1	.4	6.9	1.4	.1	.1						9.1	9.1
CALM												5.4	
	24.3	33.7	25.8	8.6	1.3	.8						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

828

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

MAY

STATION

STATION NAME

YEAR

MONTH

ALL WEATHER

1500-1700

LOCAL (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	.2									1.4	4.6
NNE	.4	.6	.4	.1								1.4	5.7
NE	.2	.7	.8	.2								1.7	6.6
NNE	.1	1.1	.6	.5								2.3	7.7
E	.5	1.4	1.6	.1								3.6	6.2
ESE	.5	.8	.6	.2								2.2	6.7
SE	.2	.4	.2	.2								1.1	6.3
SSE	.2	.2	.4									.8	5.9
S	.7	1.0	.6	.2								2.5	5.6
SSW	1.1	1.3	1.3	.2								3.9	6.1
SW	1.0	1.7	1.8	1.2	.2							5.9	8.8
WSW	1.1	2.0	2.4	1.9	.6	.1						8.1	8.6
W	1.8	8.1	12.0	6.6	.4							28.8	8.2
WNW	1.9	4.5	7.2	1.6								15.2	7.1
NW	1.1	1.7	2.2	.4								5.3	6.1
NNW	.8	1.0	.6	.1								2.5	5.0
VALE		.4	6.2	1.6	.6	.2						9.0	10.4
CALA												4.3	
	12.2	27.5	38.6	15.2	1.8	.9						100.8	7.3

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAY

MONTH

ALL WEATHER

CLASS

1800-2000

NOTES (L.S.V.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	.8	.1									1.8	4.2
NNE	.7	.5	.1									1.3	3.9
NE	.8	.5	.4									1.7	4.4
ENE	.6	.6	.6	.4								2.2	6.5
E	.2	1.3	.8	.4								2.8	6.6
ESE	.2	.1	.2	.1								.7	5.8
SE	.6	.6	.7									1.9	5.3
SSE	.3	.6	.6	.1								1.8	6.1
S	.8	.1	.4									1.3	4.3
SSW	.5	.6	.8	.5								2.4	7.4
SW	1.7	1.1	2.9	.2	.1							6.0	6.5
WSW	1.7	3.4	2.3	1.0	.2							8.5	6.6
W	5.9	16.0	9.9	2.5	.1							34.5	6.0
WNW	4.2	6.5	4.2	.1								15.0	5.2
NW	2.3	3.1	1.7	.1								7.2	4.9
NNW	1.3	.6										1.9	2.8
VARBL			.4	.5								.8	11.4
CALM												8.3	
	22.9	36.4	26.1	5.9	.5							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

835

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAY

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.5	.1									1.9	2.9
NNE	1.1	.4	.5	.1								2.0	4.6
NE	1.6	.2										1.8	2.5
ENE	3.1	.8	.1	.1								4.2	3.1
E	3.1	2.3	.4	.1								5.9	3.7
ESE	.6	.5	.2									1.3	4.8
SE	.7	.2	.2									1.2	3.9
SSE	.4	.1	.5	.1								1.1	6.4
S	2.5	.7	.4	.1								3.7	3.5
SSW	2.6	1.8	.5	.1								5.0	4.0
SW	2.4	3.5	.8	.8								7.5	5.3
WSW	2.6	3.0	1.7	.5								7.8	5.3
W	7.7	3.7	2.0	.4								13.8	4.2
WNW	1.8	.7	.2									2.8	3.3
NW	1.2	.2	.1									1.6	3.3
NNW	.4	.2										.6	3.2
VARBL			.1	.1								.2	11.0
CALM												37.7	
	33.0	18.9	7.9	2.5								100.0	2.6

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

ALL  
DOORS (L.E.V.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.6	.2									1.9	3.5
NNE	.9	.6	.3	.1								1.8	4.3
NE	1.9	.7	.6	.1								3.3	4.1
ENE	4.6	2.3	.5	.2	.0							7.6	3.7
E	4.2	2.8	.8	.1								7.9	3.8
ESE	.7	.7	.3	.1								1.9	4.8
SE	.7	.6	.3	.0								1.7	4.7
SSE	.8	.4	.3	.0								1.6	4.3
S	1.9	1.2	.5	.1								3.7	4.3
SSW	1.9	1.3	.8	.2	.1	.1						4.4	5.3
SW	1.7	2.1	1.4	.5	.1							5.7	5.9
WSW	2.0	2.2	1.6	.9	.1	.1						6.9	6.4
W	3.6	5.3	4.3	1.8	.1							15.2	6.3
WNW	1.6	2.1	2.0	.3	.0							6.0	5.8
NW	1.2	1.1	.7	.1								3.0	4.7
NNW	.9	.4	.2	.1								1.6	4.1
VARBL	.0	.1	2.0	.6	.1	.0						2.9	9.7
CALM												23.0	
	29.8	24.5	16.9	5.2	.6	.2						100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

6687

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUN

MONTH

ALL WEATHER

CLASS

0000-0200

HOURLS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.1										1.1	2.4
NNE	.9	.6										1.5	3.3
NE	1.5	1.2	.1									2.9	3.5
ENE	4.0	2.6		.1								6.7	3.1
E	5.1	1.6	.5	.2								7.4	3.3
ESE	1.0	1.2	.4									2.6	4.1
SE	1.6	.5	.4									2.5	3.3
SSE	.7	.4										1.1	3.1
S	2.1	1.1	.5									3.7	3.8
SSW	2.9	.7	.4	.4								4.3	4.1
SW	3.2	1.7	.9	.4	.1							6.3	4.6
WSW	3.2	1.1	.6	.2								5.2	3.8
W	3.8	.7	.5	.1								5.2	3.3
WNW	2.2	.6	.1									3.0	2.6
NW	.7		.1									.9	3.1
NNW	.4	.1										.5	2.3
VARBL													
CALM												45.0	
	34.4	14.5	4.5	1.5	.1							100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

806



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUN

MONTH

ALL WEATHER

CLASS

0300-0500

GROUP (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.5		.2									.7	3.3
NNE	1.5	.1										1.6	2.5
N'E	3.1	.6	.1									3.8	2.7
ENE	5.8	2.1										7.9	2.6
E	10.8	3.2	.5	.2								14.7	2.8
ESE	2.2	.7	.1	.1								3.2	3.1
SE	1.1	.4										1.5	3.0
SSE	1.4	.2		.1								1.7	2.8
S	2.5	.5	.6									3.6	3.4
SSW	2.7	.9	.1	.1								3.8	3.4
SW	1.5	1.1	.5		.2							3.3	3.1
WSW	1.6	1.2	1.0	.2	.1							4.2	3.6
W	2.1	1.6	.5	.1								4.3	4.1
WNW	1.1	.7	.1									2.0	3.3
NW	.7	.1										.9	2.9
NNW	.2		.1									.4	4.3
VARBL													
CALM												42.2	
	38.9	13.6	4.0	1.0	.4							100.0	1.9

TOTAL NUMBER OF OBSERVATIONS

808

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	.4										1.9	2.7
NNE	1.4	.5										1.9	2.3
NE	3.0	1.0	.2									4.2	3.0
ENE	7.8	3.2	.7									11.7	3.0
E	9.3	3.7	1.2									14.2	3.5
ESE	2.1	.5	.2									2.8	3.0
SE	1.6	.7	.1									2.3	3.0
SSE	2.3	.5	.4									3.2	3.3
S	2.3	1.0	.2	.1								3.7	3.1
SSW	1.1	2.1	.9	.2								4.3	5.2
SW	1.0	1.2	.1	.1								2.5	4.0
WSW	2.1	1.0	.6									3.7	4.1
W	1.9	1.5	.2	.2								3.8	4.2
WNW	1.2	.5										1.7	2.8
NW	.6											.6	2.2
NNW	.4	.2	.1									.7	3.3
VARBL													
CALM												36.5	
	39.6	18.0	5.2	.7								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB NO

STATION NAME

73-81

YEARS

JUN

MONTH

ALL WEATHER

CLASS

0900-1100

PERIOD (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	.5	.1									3.5	2.6
NNE	1.4	.9										2.2	3.2
NE	1.5	1.7	.1									3.3	3.6
NNE	2.5	1.9	1.1									5.4	4.3
E	3.8	3.5	1.4	.9	.1							9.6	5.2
ESE	2.2	1.7	1.0	.1								5.1	4.7
SE	2.2	1.2	.2									3.7	3.7
SSE	2.5	1.7	.1									4.3	3.5
S	4.4	3.2	.4	.1								8.1	3.7
SSW	3.7	3.2	.9	.2								8.0	4.2
SW	1.5	2.0	.9	.2								4.6	4.9
WSW	2.0	1.7	.6	.2	.1							4.7	5.0
W	2.5	3.0	.9	.2								6.8	4.8
WNW	2.5	.9	.2	.2								3.8	3.6
NW	2.6	1.0	.1	.1								3.8	3.1
NNW	2.3	.9	.1									3.3	2.8
VARBL			1.2	.1								1.4	6.1
CALM												10.5	
	40.4	28.9	9.4	2.6	.2							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEAR

JUN

MONTH

ALL WEATHER

CLASS

1200-1400

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	.4										2.6	2.4
NNE	1.5	.6										2.1	2.8
NE	.6	.5	.2									1.4	4.0
ENE	.7	1.1	.2	.2								2.4	4.9
E	2.0	2.1	1.0	1.4	.1							6.6	6.8
ESE	1.1	1.7	.9	.2								4.0	8.2
SE	1.2	1.0	.7	.1								3.1	4.7
SSE	.9	1.6	.2									2.7	4.3
S	3.0	1.6	1.1									5.7	4.4
SSW	2.6	3.8	1.1	.4								7.9	4.7
SW	3.3	4.7	1.9	.8	.4							10.8	8.8
WSW	3.0	5.8	1.4	.6	.1							10.9	8.3
W	4.0	6.2	3.2	.4	.1	.1						14.0	8.6
WNW	2.2	3.0	.7									5.9	4.2
NW	3.3	2.2	.6									6.2	3.8
NNW	1.6	1.4	.1									3.1	3.8
VARI		.2	2.4	.1								2.7	8.0
CALM												8.0	
	33.3	38.0	15.8	4.0	.7	.1						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

808

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220 OSAN AB MO 73-81 JUN  
STATION STATION NAME YEARS MONTH  
1500-1700  
HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.4	.2									3.1	3.9
NNE	1.0	.2	.2									1.5	3.3
NE	.5	.9	.1									1.5	3.8
ENE	.6	.4	.2	.5								1.7	6.2
E	1.0	1.9	1.1	.4								4.3	6.0
ESE	1.2	1.2	1.5	.1								4.1	5.5
SE	.7	.7	.6									2.1	4.8
SSE	.9	.5										1.4	3.4
S	1.6	2.5	.2									4.3	3.8
SSW	1.5	2.2	1.5	.9								6.0	6.1
SW	1.2	2.0	2.1	.5	.1							5.9	6.5
WSW	2.0	4.4	1.9	.5								8.8	5.5
W	4.1	8.4	9.0	1.1								22.6	6.3
WNW	2.6	4.9	4.3	.5								12.3	5.7
NW	1.6	2.7	1.9									6.2	5.3
NNW	1.9	1.0	.2									3.1	3.4
VARBL		.5	3.6	.6								4.7	8.3
CALM												6.4	
	23.8	35.8	28.8	5.1	.1							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1800-2000

CLASS

MOON (L.E.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.2	.1									2.6	3.8
NNE	1.1	.1	.1									1.4	2.9
NE	.7	.6										1.4	3.8
ENE	.5	.6	.6	.2								2.0	6.3
E	1.2	1.7	1.5	.2								4.7	8.7
ESE	.7	1.0	.2									2.8	4.4
SE	.4	.7	.5									1.6	5.2
SSE	1.0	.2		.1								1.4	3.8
S	1.4	1.1	.4									2.8	4.8
SSW	.6	.6	.7	.1								2.1	5.9
SW	1.5	1.9	1.7	.9								5.9	6.6
WSW	2.0	3.8	1.2	.2								7.3	5.0
W	6.3	12.1	6.0	.9								25.3	5.3
WNW	4.0	8.1	3.3									18.4	4.8
NW	2.5	3.5	1.9									7.8	4.7
NNW	2.0	1.2		.1								3.3	3.5
VARB			.7	.2								1.0	9.3
CALM												12.1	
	27.0	38.6	19.1	3.1								100.0	9.9

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEAR

JUN

MONTH

ALL WEATHER

CLASS

2100-2300

GROUP (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.2										1.1	2.2
NNE	.4	.6										1.0	3.6
NE	1.0	.2	.1									1.4	3.6
NNE	1.7	1.0	.1									2.8	3.3
E	2.7	1.4	1.0	.2								5.3	4.6
ESE	.9	.7	.2									1.9	3.7
SE	.7	.7	.1									1.4	3.5
SSE		.6	.2									.9	4.0
S	1.1	1.1	.2									2.5	4.1
SSW	2.1	1.4	.9	.1								4.5	4.1
SW	3.0	1.4	1.4	.1								5.8	4.6
WSW	2.8	2.5	.9	.4								6.6	4.6
W	9.7	5.7	.7									16.1	3.3
WNW	4.8	1.9	.6	.1								7.4	3.9
NW	2.2	.6	.2									3.1	2.8
NNW	1.2	.4	.1									1.7	3.3
VARB.			.2									.2	7.0
CALM												14.1	
	35.3	20.4	7.2	1.0								100.8	2.9

TOTAL NUMBER OF OBSERVATIONS

888

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUN

MONTH

ALL WEATHER

CLAS

ALL

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	.5	.1									2.1	3.0
NNE	1.1	.5	.0									1.6	3.0
NE	1.5	.9	.1									2.5	3.3
ENE	3.0	1.6	.4	.1								5.1	3.5
E	4.5	2.4	1.0	.4	.0							8.4	4.3
ESE	1.4	1.1	.6	.1								3.2	4.4
SE	1.2	.8	.3	.0								2.3	3.9
SSE	1.2	.7	.1	.0								2.1	3.6
S	2.3	1.5	.8	.0								4.3	3.8
SSW	2.1	1.9	.8	.3								5.1	4.7
SW	2.0	2.0	1.2	.3	.1							5.6	5.4
WSW	2.3	2.7	1.0	.3	.0							6.4	5.0
W	4.3	4.9	2.6	.4	.0	.0						12.2	5.0
WNW	2.6	2.6	1.2	.1								6.5	4.4
NW	1.8	1.3	.6	.0								3.7	4.1
NNW	1.3	.6	.1	.0								2.0	3.3
VARBL		.1	1.0	.1								1.3	8.3
CALM												25.6	
	34.1	26.0	11.7	2.4	.2	.0						100.0	3.3

TOTAL NUMBER OF OBSERVATIONS

6469



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

971220  
STATION

OSAN AB KO

STATION NAME

73-81  
YEAR

JUL  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.1										.5	2.5
NNE	.8	.1	.4									1.3	4.4
NE	2.0	1.1										3.1	3.0
NNE	4.4	2.2	.6									7.2	3.6
E	4.4	2.2	1.1	.5								8.1	4.1
ESE	1.2	.6	.4	.5								2.6	5.5
SE	.6	.6										1.2	3.3
SSE	2.9	.7	.2	.2								4.1	3.4
S	3.5	1.9	.6	.1								6.1	3.9
SSW	3.4	2.5	1.4	.4								7.7	4.9
SW	1.8	2.3	.4	.4	.1							4.9	4.8
WSW	1.1	.8	.4									2.3	3.9
W	1.2	1.0										2.2	3.3
WNW	.8	.2										1.1	2.9
NW	.4			.1								.5	5.8
NNW	.2		.1									.4	4.3
VARB													
CALM												46.8	
	29.1	16.3	5.5	2.2	.1							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

835

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

73-81

JUL

STATION NAME

YEARS

MONTHS

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.2	.1									.8	3.3
NNE	.8	.5	.1	.1								1.6	4.2
NE	4.1	.8										4.9	2.5
ENE	5.4	2.8	.5	.2								8.9	3.4
E	4.9	2.6	.7	.1								8.4	3.6
ESE	1.8	.6	.8	.1								3.4	4.6
SE	1.7	1.5	.1									3.1	3.4
SSE	1.7	.6	.2									2.5	3.5
S	4.1	1.8	1.0									6.8	3.7
SSW	2.8	1.1	1.1	.4	.1							5.4	5.0
SW	2.3	1.2	.8	.5								4.8	4.9
WSW	.6	1.1	1.0	.2								2.9	6.1
W	.8	.4	.1									1.3	3.6
WNW	.6	.1	.1									.8	3.4
NW	.2	.1										.4	3.3
NNW	.5											.5	2.0
VARBL			.1									.1	7.0
CALM												43.8	
	32.7	15.2	6.8	1.7	.1							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

835

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEAR

JUL  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3		.5									1.8	3.5
NNE	1.4	.2	.2									1.9	2.9
NE	2.0	1.6										3.6	3.3
ENE	6.9	3.6	.1	.2								10.9	3.4
E	5.0	4.9	1.1	.2								10.9	4.2
ESE	1.1	1.6	.8									3.1	4.3
SE	2.8	2.5	.2									5.5	3.7
SSE	2.3	2.0	.6									4.9	4.1
S	3.1	2.3	.8									6.2	3.8
SSW	1.9	1.8	1.7									5.4	5.0
SW	1.3	1.6	1.0	.2								4.1	5.5
WSW	.7	.8	.6	.2								2.4	5.4
W	1.1	.7	.2									2.0	3.8
WNW	.7	.5	.1									1.3	4.1
NW	.2	.1										.4	3.7
NNW			.1									.1	8.0
VARBL			.1									.1	10.0
CALM												35.4	
	31.9	23.8	7.9	1.0								100.0	2.4

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

971220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUL

MONTH

ALL WEATHER

CLASS

0900-1100

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.6	.4	.1								2.2	4.4
NNE	1.1	.4	.1									1.6	3.1
NE	1.6	1.8	.7	.1								4.2	4.7
ENE	1.9	2.2	2.6	.4								7.1	5.9
E	3.1	3.7	3.8	.5								11.1	5.7
ESE	1.6	3.3	1.3	.4								6.7	5.3
SE	2.3	2.5	.7									5.5	4.0
SSE	1.9	3.2	1.2	.1								6.5	4.6
S	3.2	4.7	1.3	.1								9.3	4.7
SSW	3.2	3.3	1.8	.5								8.9	5.0
SW	2.5	1.9	1.3	.6								6.3	5.5
WSW	1.4	1.1	1.2	.4								4.1	5.7
W	1.9	1.0	1.7	.4								4.9	5.3
WNW	1.8	.1	.4									2.3	3.0
NW	1.0	.1	.2	.1								1.4	4.1
NNW	.7	.4	.1									1.2	3.6
VARB		.1	1.8	.1								2.0	7.8
CALM												14.8	
	30.3	30.5	20.7	3.7								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

47122(1)  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUL

MONTH

ALL WEATHER

CLASS

1200-1400

HOURLY (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.9	1.2	.1	.1								3.3	3.9
NNE	1.0	.8	.1									1.9	3.6
NE	.7	.5	.5	.4								2.0	5.7
ENE	1.1	1.4	3.0	.1								5.6	6.3
E	1.9	2.6	3.5	1.2								9.2	6.8
ESE	1.0	1.4	1.8	.2								4.4	6.2
SE	1.2	2.0	.7	.1								4.1	5.1
SSE	1.2	2.4	1.7									5.3	5.3
S	2.9	3.5	1.1	.1								7.5	4.4
SSW	1.7	4.3	1.8	.6	.2							8.6	6.1
SW	1.4	4.5	3.0	1.3								10.3	6.6
WSW	1.4	3.1	2.3	.5								7.3	6.1
W	3.0	1.9	3.0	.7								8.6	5.8
WNW	2.0	2.2	.4									4.5	4.0
NW	1.9	1.3	.2									3.5	3.5
NNW	1.8	1.0	.1									2.9	3.4
VARBL		.4	5.1	.1								5.6	7.8
CALM												5.4	
	26.0	34.5	28.3	5.5	.2							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

837

AD-A116 472 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
USAF A/C. KOREA. REVISED UNIFORM SUMMARY OF SURFACE WEATHER ORSF--ETC (1)  
JUN 82  
UNCLASSIFIED USAFETAC/DS-82/035 SBI-AD-F850 194 NL

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
 USAF, AR, KOREA. REVISED UNIFORM SUMMARY OF SURFACE WEATHER ORSF--ETC(1)  
 JUN 82

USAF: At: KOREA. REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBS--ETC (1)  
JUN 82

JUN 82

UNCLASSIFIED

USAFF TAC/OS-82/035

SHI-AD-F850 194

NI

2 : 5

10

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1500-1700  
GROUP (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.6	.6									4.1	4.0
NNE	.6	.4	.4									1.3	4.1
NE	.6		.2	.5								1.3	7.1
ENE	.5	1.2	1.3	.5								3.5	6.7
E	1.6	3.5	3.2	.5								8.7	6.2
ESE	.7	2.4	1.3	.5								4.9	6.1
SE	1.1	1.6	1.1	.1								3.8	5.4
SSE	.2	1.7	.6									2.5	5.5
S	1.2	1.7	1.6									4.4	5.3
SSW	1.2	2.0	2.6	1.0	.1							6.9	7.2
SW	1.7	3.0	3.1	1.7	.2							9.7	7.5
WSW	.8	3.2	3.1	1.1								8.2	6.9
W	1.8	5.7	5.4	1.3	.1							14.3	6.8
WNW	2.2	3.1	3.3	.2								8.8	5.7
NW	1.9	2.7	1.2	.1								6.0	5.1
NNW	.8	1.9	.5									3.2	4.6
VARBL		.2	3.6	.5								4.3	8.4
CALM												3.9	
	18.8	35.8	33.1	7.9	.5							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1800-2000  
SOURCE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.1	.2									2.9	3.9
NNE	.8	.2	.1									1.2	3.2
NE	.6	.6		.5								1.7	6.2
ENE	1.1	1.4	1.7	.2								4.4	5.6
E	.6	4.1	2.5	.2								7.4	6.0
ESE	1.1	1.8	1.3	.1								4.3	5.4
SE	1.6	1.4	.6									3.6	4.3
SSE	1.2	1.1	.1									2.4	3.9
S	1.8	1.0	.2									3.0	3.5
SSW	.8	3.0	1.6	.6								6.0	6.2
SW	1.1	3.1	2.8	1.1								8.0	7.0
WSW	1.1	1.9	1.8	.1								4.9	5.6
W	4.2	9.3	4.9	.1								18.5	5.2
WNW	3.1	3.8	.6	.2								7.8	4.3
NW	2.5	3.2	.8									6.6	4.3
NNW	2.2	1.6	.4									4.1	3.5
VARBL			.8	.2								1.1	9.4
CALM												12.2	
	25.2	38.6	20.5	3.5								100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

836



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471223  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUL

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.1										1.4	2.4
NNE	1.4	.4										1.8	2.5
NE	1.8	1.7	.4	.4								4.2	4.7
ENE	2.4	2.2	1.2									5.7	4.3
E	3.5	2.5	1.9	.2								6.1	4.6
ESE	.8	.6	.2	.5								2.2	6.0
SE	.2	1.0	.2									1.4	4.8
SSE	1.1	.8										1.9	3.3
S	2.6	2.5	.5									5.6	3.7
SSW	2.6	3.2	.8	.6								7.3	4.9
SW	1.8	2.0	1.1	.1								5.0	5.0
WSW	1.9	1.1	.8	.1								3.9	4.5
W	4.8	1.9	.1									6.8	2.9
WNW	2.2	.1										2.3	2.5
NW	.8	.4										1.2	2.7
NNW	1.1	.2										1.3	2.5
VARBL				.1								.1	12.0
CALM												39.6	
	30.4	20.7	7.3	2.0								100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.6	.2	.0								2.1	3.8
NNE	1.0	.4	.2	.0								1.6	3.4
NE	1.7	1.0	.2	.2								3.1	4.2
ENE	3.0	2.1	1.4	.2								6.7	4.6
E	3.1	3.2	2.2	.4								9.0	5.2
ESE	1.2	1.6	1.0	.3								3.9	5.5
SE	1.4	1.6	.5	.0								3.5	4.3
SSE	1.6	1.6	.6	.0								3.8	4.3
S	2.8	2.4	.9	.0								6.1	4.2
SSW	2.2	2.7	1.6	.5	.1							7.0	5.5
SW	1.7	2.5	1.7	.7	.0							6.6	6.1
WSW	1.1	1.6	1.4	.3								4.5	5.8
W	2.3	2.7	1.9	.3	.0							7.3	5.3
WNW	1.7	1.3	.6	.1								3.6	4.4
NW	1.1	1.0	.3	.0								2.5	4.3
NNW	.9	.6	.2									1.7	3.7
VARB		.1	1.5	.1								1.7	8.2
CALM												25.2	
	28.1	26.9	16.3	3.4	.1							100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

6688

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

AUG

MONTH

ALL WEATHER

CLASS

0000-0200

HOURLS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	.2										2.0	2.2
NNE	2.2	.4	.2									2.7	3.0
NE	4.5	1.1	.2									5.9	2.7
ENE	7.0	2.3	.5									9.8	2.9
E	6.5	3.2	.2	.1								10.0	3.2
ESE	1.9	.4	.1	.1								2.5	3.3
SE	1.4	.4	.2	.1								2.2	4.1
SSE	2.4	1.9	.2	.1								4.7	3.9
S	2.9	1.7	.5									5.0	3.8
SSW	1.7	1.2	.5	.1								3.5	4.4
SW	.5	.2		.1								.8	4.7
WSW	.8	.7		.2								1.8	4.8
W	.7	.5	.5		.1							1.8	5.6
WNW	.1											.1	3.0
NW	.1	.2										.4	3.7
NNW	.6	.2										.8	3.0
VARBL			.1									.1	7.0
CALM												45.9	
	35.1	14.6	3.3	1.0	.1							100.0	1.9

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEAR

AUG

MONTH

ALL WEATHER

CLASS

0300-0500

OURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.4										1.7	2.8
NNE	2.5	.6										3.1	2.8
NE	3.9	1.2	.6									5.7	3.4
ENE	6.8	2.0	.5									9.3	2.9
E	6.5	3.0	.1									9.6	2.9
ESE	1.4	1.2										2.6	3.1
SE	1.2	.8	.1									2.2	3.6
SSE	1.9	1.3	.4									3.6	3.6
S	3.1	1.3	.6									5.0	3.6
SSW	.6	.7	.5	.7	.1							2.6	7.9
SW	.2	.4			.1							.7	6.2
WSW	.2	.4	.4	.4								1.3	6.9
W	.4	1.0	.2	.1								1.7	5.4
WNW	.1	.4										.5	4.5
NW	.1	.2										.4	4.0
NNW	.2	.1										.4	3.3
VARBL		.1										.1	4.0
CALM												49.6	
	30.6	15.1	3.3	1.2	.2							100.0	1.4

TOTAL NUMBER OF OBSERVATIONS

437

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220

OSAN AB KO

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

CONDITION

0600-0800

DOGS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	.5	.2									2.6	3.2
NNE	2.4	.7	.5									3.6	3.5
NE	4.8	1.0	.5									6.2	3.0
ENE	6.5	2.7	.7	.2								10.2	3.5
E	6.0	3.1	.6	.1								9.8	3.5
ESE	2.2	.6	.4									3.1	3.7
SE	1.9	1.4										3.3	3.4
SSE	1.6	2.5	.1									4.2	3.8
S	3.1	2.5	.5	.1								6.2	3.9
SSW	.7	.8	.4	.5								2.4	6.2
SW	.7	.2	.4	.1								1.4	4.8
WSW	.1	.4	.4	.4								1.2	8.3
W	.8	.6	.2	.2								1.9	4.8
WNW	.6	.4										1.0	3.0
NW	.2	.1										.4	2.7
NNW	.6	.2										.8	2.7
VARBL			.1									.1	7.0
CALM												41.6	
	34.1	17.8	4.9	1.7								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471227  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEAR

AUG  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.3	.6									3.5	4.1
NNE	2.3	1.4	.4									4.1	3.5
NE	3.3	1.8	1.9	.2								7.3	4.9
ENE	3.9	4.2	2.3	.8								11.2	5.3
E	3.2	5.1	2.8	.5	.1							11.7	5.4
ESE	1.9	1.9	.6									4.4	4.0
SE	1.6	3.2	.4									5.1	4.1
SSE	1.4	2.6	1.2	.1								5.4	5.0
S	2.9	3.8	1.6	.1								8.4	4.7
SSW	1.6	1.8	2.4	.8								6.6	6.6
SW	1.9	1.1	1.2									4.2	4.7
WSW	1.6	.7	.2	.2								2.8	4.4
W	2.4	1.1	.1	.7								4.3	4.9
WNW	1.2	1.0	.2	.1								2.5	4.4
NW	1.1	.1	.2									1.4	4.0
NNW	1.4	.2	.1									1.8	2.7
VARB	.1	.1	1.3	.1								1.7	7.9
CALM												13.6	
	33.4	31.6	17.5	3.8	.1							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

AUG  
MONTH

ALL WEATHER

CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.9	1.1	.2									4.2	3.0
NNE	1.7	1.3	.4									3.3	4.0
NE	2.6	1.8	1.3									5.7	4.5
ENE	1.9	3.3	2.9	.2	.1							8.5	5.8
E	1.8	3.8	3.9	1.0	.1							10.6	6.6
ESE	1.1	1.6	1.0	.1								3.7	5.1
SE	1.0	1.3	.7	.1								3.1	5.3
SSE	1.0	1.9	.2	.1								3.2	4.7
S	2.2	1.7	2.0	.4								6.2	5.3
SSW	1.8	1.6	1.8	1.9	.2							7.3	7.7
SW	1.1	3.0	1.3	1.3	.1							6.8	6.8
WSW	1.8	2.4	1.1	.5								5.7	5.5
W	1.8	3.8	.8	.4								6.8	4.8
WNW	2.3	3.3	.5	.2								6.3	4.4
NW	2.7	1.4	.6	.1								4.9	4.0
NNW	1.9	1.0	.2									3.1	3.3
VARBL	.4	.8	2.9	.7								4.8	7.8
CALM												5.6	
	29.7	35.1	21.9	7.0	.6							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	1.8	.8	.1								5.3	4.2
NNE	1.1	2.2	.4									3.6	4.7
NE	1.8	1.3	.8	.2								4.2	4.9
ENE	1.2	3.5	1.4	.5								6.6	5.8
E	2.4	3.0	3.6	1.0	.1							10.0	6.6
ESE	1.2	1.8	.7	.1								3.8	4.7
SE	1.1	1.3	.6	.1								3.1	4.8
SSE	.7	.8	.5									2.0	4.8
S	1.1	.8	.8	.1								2.9	5.3
SSW	1.4	1.1	2.2	1.3								6.0	7.5
SW	1.3	1.1	1.9	1.7	.1							6.1	7.9
WSW	1.0	3.0	1.9	.4								6.2	6.1
W	1.4	4.9	4.4	.1								10.9	6.2
WNW	1.0	5.4	1.9	.5								8.7	5.8
NW	2.5	4.7	1.1									8.3	4.7
NNW	2.6	1.9	.6									5.1	3.8
VARBL	.1		2.3	.2								2.6	8.5
CALM												4.5	
	24.4	38.5	26.0	6.3	.2							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 836



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

47122

OSAN AB KO

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1800-2000

CLAS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.5	1.1	.1									3.7	3.1
NNE	1.1	.5	.2									1.8	3.8
NE	2.9	2.6	.7	.2								6.5	4.3
ENE	2.4	3.7	.8									6.9	4.4
E	2.9	2.3	1.0	.4								6.5	4.5
ESE	1.7	1.4	.2									3.5	3.8
SE	2.3	.6	.1									3.0	3.1
SSE	1.0	.5	.5									1.9	4.6
S	.6	.6	1.1									2.3	5.7
SSW	1.3	2.6	1.4	.4								5.7	5.7
SW	1.1	1.7	.8	.4								3.9	5.6
WSW	2.4	1.7	.5									4.5	3.9
W	6.5	5.5	2.2	.1								14.2	4.2
WNW	3.1	2.5	.8									6.5	3.7
NW	4.3	3.8	.5									8.6	3.5
NNW	2.4	.5	.4									3.2	2.9
VARBL	.2		.1	.1								.5	6.8
CALM												16.8	
	38.5	31.7	11.5	1.6								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

837

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

47122

OSAN AB KO

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

2100-2300

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.2										1.2	2.4
NNE	1.6	1.1										2.6	3.2
NE	3.8	3.1										6.9	3.3
ENE	4.5	2.4	.7									7.6	3.3
E	4.3	3.1	1.2	.2								8.8	4.2
ESE	1.4	.6	.1									2.2	2.8
SE	2.0	.6	.4									3.0	3.3
SSE	1.3	1.0	.5									2.7	4.1
S	2.9	2.2	.2									5.3	3.4
SSW	1.9	2.2	.8	.1								5.0	4.5
SW	1.4	.8	.2	.4	.1							3.0	5.5
WSW	1.3	.6										1.9	2.5
W	1.6	.6		.2								2.4	3.7
WNW	1.7	.2		.1								2.0	2.5
NW	.4											.4	1.3
NNW	1.2	.1	.1									1.4	2.4
VARBL	.1											.1	3.0
CALM												43.4	
	32.4	18.8	4.3	1.1	.1							100.0	2.0

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220

OSAN AB KO

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

DOGS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	.8	.3	.0								3.0	3.3
NNE	1.8	1.0	.3									3.1	3.6
NE	3.5	1.7	.8	.1								6.1	3.8
ENE	4.3	3.0	1.2	.2	.0							8.8	4.2
E	4.2	3.3	1.7	.4	.0							9.6	4.7
ESE	1.6	1.2	.4	.0								3.2	3.9
SE	1.6	1.2	.3	.0								3.1	4.0
SSE	1.4	1.6	.4	.0								3.5	4.3
S	2.3	1.8	.9	.1								5.2	4.4
SSW	1.4	1.5	1.2	.7	.0							4.9	6.4
SW	1.0	1.1	.7	.5	.1							3.4	6.2
WSW	1.2	1.2	.6	.3								3.2	5.2
W	1.9	2.2	1.1	.2	.0							5.5	4.9
WNW	1.3	1.6	.4	.1								3.5	4.5
NW	1.4	1.3	.3	.0								3.1	4.0
NNW	1.4	.5	.2									2.1	3.2
VARBL	.1	.1	.9	.1								1.3	7.8
CALM												27.6	
	32.3	25.4	11.6	3.0	.2							100.0	3.3

TOTAL NUMBER OF OBSERVATIONS

6694

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.0	1.9	.1									4.9	3.3
NNE	2.0	1.1	.1									3.2	3.1
NE	4.4	2.1	.2									6.8	3.1
ENE	12.8	3.5	.5	.2								17.0	2.8
E	5.2	2.7	.5									8.4	3.3
ESE	.5	.1										.6	2.6
SE	.6	.7	.2									1.6	4.4
SSE	.9	1.2	.2	.2								2.6	5.0
S	1.6	.9	.4									2.8	3.5
SSW	1.1	.7	.4									2.2	3.8
SW	.6	.2										.9	2.9
WSW	.1	.4										.5	3.5
W	.4	.2	.1									.7	3.8
WNW	.4	.2	.1									.7	5.0
NW	1.2	.2		.1								1.6	3.1
NNW	.7	.2										1.0	2.6
VARBL			.1									.1	8.0
CALM												44.2	
	35.6	16.5	3.1	.6								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	1.2										3.6	2.9
NNE	2.7	.9										3.6	2.8
NE	4.9	1.9	.1									6.9	2.8
ENE	10.1	3.1	.7		.1							14.1	3.1
E	6.4	2.1	.6									9.1	3.0
ESE	.5	.2	.1									.9	3.7
SE	.5	.9	.1									1.5	4.0
SSE	1.0	1.2	.5									2.7	4.5
S	1.4	.4	.2									2.0	3.7
SSW	.4	.4	.1	.1								1.0	5.5
SW	.5	.1										.6	3.0
WSW	.6											.6	2.0
W	.2	.4	.2									.9	5.0
WNW	.4	.1	.1	.2	.1							1.0	8.0
NW	.6											.6	2.0
NNW	.6	.6										1.2	3.6
VARBL													
CALM												49.8	
	33.2	13.5	3.0	.4	.2							100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.0	.9	.2	.1								4.2	3.3
NNE	3.5	.9	.2	.1								4.7	2.9
NE	5.3	1.2		.1								6.7	2.5
ENE	10.0	2.7	.4	.2								13.3	3.0
E	6.4	1.9	.4	.2								8.9	3.2
ESE	1.6	.4										2.0	2.9
SE	1.1	.6	.4									2.1	3.8
SSE	.5	.9	.4									1.7	5.0
S	1.2	.7	.5									2.5	4.0
SSW	.4	.4	.1									.9	4.1
SW	.5	.1	.2	.1								1.0	5.5
WSW	.2		.2	.1								.6	6.0
W	.5	.2		.1		.1						1.0	6.8
WNW	.2	.1		.1								.5	6.0
NW	.6	.2	.2									1.1	3.7
NNW	1.4	.1	.1									1.6	2.3
VARBL													
CALM												47.2	
	36.5	11.4	3.5	1.4		.1						100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

SEP  
MONTH

ALL WEATHER

CLASS

0900-1100

MOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.4	1.1									4.0	4.7
NNE	2.7	1.5										4.2	3.2
NE	3.6	2.3	1.2	.4	.1							7.7	4.7
ENE	4.9	4.8	2.2	.4	.1							12.5	4.7
E	3.7	2.6	2.3	.6	.1							9.4	5.3
ESE	1.7	1.7	.5									4.0	4.2
SE	.7	1.6	.5									2.8	4.5
SSE	2.6	1.4	.6	.1								4.7	3.9
S	2.2	2.1	1.0									5.3	4.3
SSW	2.3	.9	.5									3.7	3.4
SW	1.6	.7	.1	.2								2.7	4.3
WSW	1.5	.4	.2		.1							2.2	3.7
W	1.4	.7	1.1	.1	.1							3.5	5.6
WNW	.9	.7	.4	.2	.1							2.3	5.8
NW	.2	.7	.5									1.5	5.9
NNW	1.0	.4	.9									2.2	5.0
VARBL		.1	1.1	.4								1.6	8.8
CALM												25.7	
	32.6	24.1	14.3	2.5	.7							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

809

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1200-1400

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	2.2	2.5	.5	.4								5.6	4.5
NNE	2.6	1.2	.4	.1								4.3	3.8
NE	2.7	2.2	1.7	1.0								7.7	5.6
ENE	1.5	2.5	2.0	1.2								7.2	6.8
E	1.6	2.8	1.6	.6	.1							6.8	6.1
ESE	1.5	1.0										2.5	3.3
SE	1.4	.9										2.2	2.9
SSE	1.5	1.2										2.7	3.4
S	2.6	2.0	.7	.1								5.4	4.1
SSW	1.1	.6	1.1	.2								3.1	5.9
SW	3.2	1.4	.9	.2								5.7	4.4
WSW	2.5	.6	.6		.4							4.1	5.1
W	1.9	4.3	2.6	.7								9.5	6.1
WNW	2.0	3.3	1.5	.4	.1							7.3	5.5
NW	1.9	3.2	1.4	.2	.4							7.0	5.9
NNW	2.1	2.0	1.0	.1								5.2	4.8
VARBL			4.6	.7								5.3	6.8
CALM												8.5	
	32.1	31.7	20.5	6.2	1.0							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

610



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220

OSAN AB KO

73-81

SEP

STATION

STATION NAME

YEARS

MONTHS

ALL WEATHER

1500-1700

CLASS

HOURLY (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.1	.2	.1								3.6	4.8
NNE	2.2	2.3	.4	.4								5.3	4.5
NE	2.1	2.3	2.2	.6								7.3	5.8
ENE	1.0	2.0	2.2	.6								5.8	6.6
E	1.1	1.6	1.6	.1								4.4	6.0
ESE	1.4	.9	.1									2.3	3.5
SE	.5	.9	.1									1.5	4.0
SSE	.1	.4										.5	4.0
S	.9	.9	.2	.1								2.1	4.4
SSW	.5	1.4	.4	.2								2.5	5.6
SW	1.5	1.1	.6									3.2	4.1
WSW	1.5	1.6	1.4	.1								4.6	5.2
W	2.6	7.7	7.9	1.4	.1	.1						19.8	6.8
WNW	1.7	6.0	4.9	.7								13.5	6.4
NW	2.7	3.5	2.5									8.6	5.0
NNW	1.4	2.2	.9	.4								4.8	5.2
VARBL			2.1	.5		.1						2.7	9.7
CALM												7.5	
	22.2	36.8	27.8	5.3	.1	.2						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

810

(1)  
2  
(1)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220

OSAN AB KO

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1800-2000

CLASS

HOWR (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	.5	.4									2.7	3.0
NNE	2.0	1.6	.5	.1								4.2	4.1
NE	2.6	2.5	.7	.1								5.9	4.2
ENE	3.5	2.3	.9	.1								6.8	4.1
E	1.6	1.7	.5	.1								4.0	4.2
ESE	.6	.2										.9	2.9
SE	.7	.2	.2									1.2	3.5
SSE	.2		.1									.4	3.3
S	.5	1.1		.1								1.7	4.6
SSW	1.4	.6	.1									2.1	3.2
SW	1.6	1.4	.1									3.1	3.5
WSW	2.3	2.0	.4	.1								4.8	4.0
W	6.7	6.4	2.0	.4								15.5	4.3
WNW	4.1	3.7	.7									8.5	3.9
NW	4.0	1.0	.1									5.1	3.0
NNW	2.5	.6	.1									3.2	2.5
VARBL													
CALM												29.9	
	36.1	26.0	6.9	1.1								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

809

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220

OSAN AB KO

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

2100-2300

DOGS (L.E.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.1	.5									3.2	3.8
NNE	2.6	1.4	.1									4.1	3.2
NE	4.4	2.0	.4	.1								6.9	3.2
ENE	12.0	5.3	.5	.2								18.0	3.2
E	4.7	2.0	.1									6.8	2.9
ESE	.4	1.0										1.4	3.5
SE	.7	.2	.2									1.2	3.9
SSE	.7	.1	.1									1.0	3.3
S	2.2	1.2	.1									3.6	3.4
SSW	1.6	1.6	.1									3.3	3.6
SW	1.1	.9	.1									2.1	3.6
WSW	.2	.4										.6	3.6
W	.7	.1	.1									1.0	3.6
WNW	.2	.1		.1								.5	4.8
NW	.1	.4	.2									.7	5.8
NNW	.9		.1									1.0	3.0
VARBL													
CALM												44.6	
	34.3	17.8	2.8	.5								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

ALL

MOUSE (L.S.V.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	1.4	.4	.1								4.0	3.6
NNE	2.5	1.4	.2	.1								4.2	3.5
NE	3.8	2.1	.8	.3	.0							7.0	4.1
ENE	7.0	3.3	1.2	.4	.0							11.8	3.8
E	3.8	2.2	1.0	.2	.0							7.2	4.1
ESE	1.0	.7	.1									1.8	3.5
SE	.8	.8	.2									1.8	3.9
SSE	.9	.8	.2	.0								2.0	4.2
S	1.6	1.2	.4	.0								3.2	4.0
SSW	1.1	.8	.4	.1								2.3	4.3
SW	1.3	.7	.3	.1								2.4	4.0
WSW	1.1	.7	.4	.0	.1							2.3	4.5
W	1.8	2.5	1.8	.3	.0	.0						6.5	5.7
WNW	1.2	1.8	1.0	.2	.0							4.3	5.5
NW	1.4	1.2	.6	.0	.0							3.3	4.7
NNW	1.3	.8	.4	.1								2.5	4.1
VARBL		.0	1.0	.2		.0						1.2	9.1
CALM												32.2	
	32.8	22.2	10.2	2.2	.3	.0						100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

6477

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB MO

STATION NAME

73-81

YEARS

OCT

MONTH

ALL WEATHER

CLASS

0000-0200

DOYR (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	2.3	1.3	.6									4.2	3.9
NNE	3.0	.8	.1									3.9	2.8
NE	5.7	2.5	.2									8.5	3.0
ENE	14.1	6.7	.1									20.9	2.9
E	6.1	4.2	.2									10.5	3.2
ESE	.4		.1									.5	4.0
SE	.5											.5	1.8
SSE	.5											.5	2.3
S	.2	.5	.1									.8	4.6
SSW	.1	.6										.7	4.2
SW	.6	.4										1.0	2.8
WSW	.1											.1	3.0
W	.4	.6	.5									1.4	5.3
WNW	.2	.5	.4	.1								1.2	6.9
NW	.2	.5	1.1	.4	.1							2.3	8.4
NNW	1.0	.8	.4									2.2	4.1
VARBL			.1	.1								.2	11.0
CALM												40.6	
	35.4	19.4	3.9	.6	.1							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB XO  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	1.4	.5									4.5	3.7
NNE	7.9	.1										3.0	2.2
NE	5.3	1.8										7.0	2.7
ENE	11.8	3.9	.2	.1								16.1	2.9
E	6.7	3.3	.4									10.4	3.2
ESE	.6	.5										1.1	2.9
SE	.2	.2										.5	4.3
SSE	.4	.5	.2									1.1	4.6
S	.7	.5	.2									1.4	4.0
SSW	.8	.1										1.0	2.4
SW	.2	.1										.4	3.0
WSW	.1	.2										.4	4.0
W	.7	.6	.2									1.6	3.8
WNW	1.1	.7	.5	.1								2.4	4.7
NW	.4	1.0	.5	.2	.1							2.2	7.3
NNW	.8	.4	.2									1.4	3.9
VARBL					.1							.1	20.0
CALM												45.5	
	35.4	15.4	3.0	.5	.2							100.0	1.8

TOTAL NUMBER OF OBSERVATIONS 637

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

OCT

MONTH

ALL WEATHER

CLASS

0600-0800

HOURLY (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.0	.8	.4									4.2	3.1
NNE	3.7	.4										4.1	2.2
NE	5.5	2.4	.1									8.0	2.8
ENE	9.4	4.1	.2									13.8	3.0
E	6.7	1.8	.4									8.9	2.8
ESE	.4	.5	.1									1.0	3.8
SE	.5	.6	.2									1.3	4.3
SSE	.2	.1	.2									.6	5.4
S	.7											.7	2.0
SSW	.5	.4										.8	3.0
SW	1.0											1.0	2.1
WSW	.2	.2										.5	3.8
W	.5	.6										1.1	3.3
WNW	.5	.8	.2	.1								1.7	5.6
NW	.4	.2	.5									1.1	5.4
NNW	1.4	1.7	.5	.1								3.7	4.5
VARBL													
CALM												47.7	
	34.6	14.6	2.9	.2								100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.1	1.3	.6									5.0	3.4
NNE	3.1	1.6										4.7	2.9
NE	4.9	2.4	.8	.1								8.3	3.6
ENE	5.3	3.6	1.9	.2								11.0	4.3
E	4.1	2.5	2.2	.2								9.0	4.8
ESE	.7	.7	.6									2.0	4.6
SE	.6	1.2	.7									2.5	4.8
SSE	1.0	1.6	.4									2.9	4.3
S	1.8	2.2	.2	.1								4.3	4.1
SSW	1.6	.5										2.0	2.5
SW	.8	.5										1.3	3.1
WSW	1.1	.2	.2									1.6	3.5
W	.5	.6	.1	.1								1.3	4.7
WNW	1.0	.5	.7	1.1	.1							3.3	7.9
NW	1.3	1.0	1.6	.8	.1							4.8	7.4
NNW	1.8	1.3	3.1	.5	.1							6.8	6.7
VARBL			.8	.2								1.1	9.2
CALM												28.1	
	32.5	21.5	14.0	3.5	.4							100.0	3.4

TOTAL NUMBER OF OBSERVATIONS

836



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.T.V.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	1.7	.4									4.7	3.5
NNE	2.0	.6	.1									2.6	3.0
NE	1.7	2.5	1.1	.2								5.5	5.1
ENE	2.3	1.9	1.6	.1								5.9	4.9
E	1.2	2.8	2.6	.4								6.9	6.2
ESE	1.9	1.1	.5	.1								3.6	4.0
SE	.7	1.2	.2									2.2	4.5
SSE	.6	.8	.4									1.8	4.6
S	1.9	1.8	.5		.1							4.3	4.3
SSW	1.7	1.1	.4	.5								3.6	5.1
SW	1.8	1.8	1.2	.1								4.9	4.7
WSW	1.8	1.6	.8	.6								4.8	5.5
W	2.4	3.0	2.4	1.1	.5							9.3	6.5
WNW	1.4	1.2	2.3	2.9	.5	.2						8.5	9.4
NW	1.8	2.3	2.0	1.7	.1	.1						8.0	7.6
NNW	1.7	2.5	1.0	.1								5.3	5.0
VARBL		.1	4.8	1.2	.4							6.5	9.4
CALM												11.6	
	27.5	27.9	22.1	9.0	1.6	.4						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.0	.6									4.1	4.3
NNE	1.2	.6	.2									2.0	3.6
NE	1.0	1.8	.5	.2								3.5	5.2
ENE	1.2	3.0	1.1									5.3	5.0
E	1.7	2.2	1.4	.4								5.6	5.5
ESE	.1	1.2										1.3	4.5
SE	.6	1.2	.2	.1								2.2	4.6
SSE	.5	.7	.2									1.4	4.4
S	1.1	.4	.1									1.6	2.9
SSW	1.3	.8	.2	.5								2.9	5.1
SW	1.0	1.2	.7	.4	.1							3.3	6.1
WSW	1.9	2.0	1.6	.5								6.0	5.9
W	2.4	6.8	7.3	2.4	.5							19.4	7.4
WNW	2.6	5.1	4.7	4.2	.2	.1						17.0	8.0
NW	2.2	3.3	2.6	.8	.1							9.1	6.2
NNW	.7	1.8	.8	.4								3.7	5.5
VARB			2.7	1.0								3.7	9.6
CALM												8.1	
	20.8	34.2	25.1	10.8	1.0	.1						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	.4	.2									3.0	3.0
NNE	1.2	.4	.1									1.7	3.2
NE	3.0	1.3	.4									4.7	3.2
ENE	3.2	2.7	.1									6.1	3.1
E	2.7	1.1	.4									4.2	3.4
ESE	.5	.5	.4									1.3	4.4
SE	.6	.1										.7	2.8
SSE	.4	.1	.1									.6	4.0
S	.8											.8	2.0
SSW	1.1	1.4	.1									2.6	3.8
SW	1.4	1.0	.1									2.5	3.6
WSW	1.1	1.3	.4									2.7	4.2
W	5.7	6.1	2.3	.6		.2						14.9	4.9
WNW	3.6	1.8	.7	.8	.2	.4						7.5	6.2
NW	2.6	2.4	1.0	.5								6.5	4.8
NNW	1.6	.4	.2									2.2	3.1
VARBL			.1	.1								.2	12.0
CALM												37.8	
	31.9	20.9	6.6	2.0	.2	.6						100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

2100-2300  
DOVER (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7	.2									2.3	3.3
NNE	1.8	.7										2.5	2.9
NE	4.8	.8	.2									5.9	2.8
ENE	13.7	6.7	.2									20.7	3.0
E	5.5	4.9										10.4	3.3
ESE	.6		.1									.7	3.3
SE	.2		.2									.5	5.0
SSE	.4											.4	2.0
S	1.3	.1	.4									1.8	3.9
SSW	.5	.6	.4									1.4	4.8
SW	.5	.5	.1									1.1	4.0
WSW	.2	.1										.4	3.7
W	1.3		.4	.1	.1							1.9	4.8
WNW	.7	.7	.5	.4	.2							2.5	7.2
NW	.6	1.2	.6	.5	.1	.1						3.1	7.3
NNW	.5	.6	.8	.1								2.0	5.8
VARBL													
CALM												42.5	
	33.9	17.7	4.2	1.1	.5	.1						100.0	2.1

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

ALL  
NUMBER (L.R.V.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	1.2	.4									4.0	3.5
NNE	2.4	.6	.1									3.1	2.8
NE	4.0	1.9	.4	.1								6.4	3.4
ENE	7.6	4.1	.7	.1								12.5	3.3
E	4.3	2.8	.9	.1								8.2	3.9
ESE	.6	.6	.2	.0								1.4	4.0
SE	.5	.6	.2	.0								1.3	4.3
SSE	.5	.5	.2									1.2	4.2
S	1.1	.7	.2	.0	.0							2.0	3.8
SSW	.9	.7	.1	.1								1.9	4.2
SW	.9	.7	.3	.1	.0							1.9	4.3
WSW	.8	.7	.4	.1								2.0	4.9
W	1.7	2.3	1.6	.5	.1	.0						6.4	6.1
WNW	1.4	1.4	1.2	1.2	.2	.1						5.5	7.6
NW	1.2	1.5	1.2	.6	.1	.0						4.6	6.7
NNW	1.2	1.2	.9	.1	.0							3.4	5.2
VARBL		.0	1.1	.3	.1							1.5	9.7
CALM												32.7	
	31.5	21.4	10.2	3.5	.5	.1						100.0	3.1

TOTAL NUMBER OF OBSERVATIONS

6692

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

NOV

MONTH

ALL WEATHER

CLASS

0000-0200

HOURE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	2.2	.7	.1								5.9	4.2
NNE	1.9	1.1	.1									3.1	3.1
NE	4.3	2.1										6.4	2.9
ENE	9.1	7.5	.4									17.0	3.3
E	7.5	3.5		.1								11.1	3.0
ESE	1.0	.2										1.2	2.5
SE	.9	.1										1.0	2.6
SSE	.9	.9	.9									2.6	5.3
S	.6	.5	.1									1.2	4.4
SSW	.6	.2										.9	2.4
SW	.2	.5										.7	4.0
WSW		.1	.1	.1								.4	8.7
W	.6	.6	.6	.5	.2							2.6	8.0
WNW	1.2	.2	.9	.6								3.0	6.5
NW	1.4	1.2	.9	.6								4.1	5.8
NNW	1.0	2.1	1.0	.6								4.7	6.2
VARBL				.1								.1	16.0
CALM												34.0	
	34.1	23.2	5.7	2.8	.2							100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

NOV

MONTH

ALL WEATHER

CLASS

0300-0500

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.1	1.4	.5	.1								5.1	3.6
NNE	2.8	.7										3.6	2.7
NE	5.9	1.7										7.7	2.7
ENE	12.4	5.8										18.2	3.0
E	5.8	3.3	.2									9.4	3.2
ESE	.7	.1	.2									1.1	3.8
SE	.4	.5	.1									1.0	3.8
SSE	.6	.6	.7									2.0	5.5
S	.9	1.0										1.9	3.8
SSW	.1	.1										.2	3.0
SW	.2		.1									.4	3.3
WSW	.1	.1										.2	3.5
W	.9	.6	.5									2.0	4.8
WNW	1.0	.9	.5	.7								3.1	6.7
NW	1.4	.7	1.1	1.0	.2							4.4	8.0
NNW	1.6	1.9	1.0	.1								4.6	4.8
VARBL				.1								.1	13.0
CALM												35.1	
	37.9	19.5	5.1	2.1	.2							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

809

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

NOV

MONTH

ALL WEATHER

CLASS

0600-0800

PERIOD (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.3	2.5	.6									6.4	3.8
NNE	2.8	.4	.1									3.3	2.5
NE	4.5	2.4										6.8	3.0
ENE	9.5	4.6	.4	.1								14.6	3.0
E	6.6	3.3	.4									10.3	3.2
ESE	.7	.4	.1									1.2	3.8
SE	.2	.7	.6									1.6	5.5
SSE	.9	.9	.5	.2								2.5	5.3
S	.4	.4	.1	.1								1.0	4.9
SSW													
SW	.2	.1										.4	3.0
WSW	.2		.1									.4	5.0
W	.4	.4	.2	.4								1.4	6.7
WNW	.4	.5	1.0	.1								2.0	6.5
NW	1.5	.6	.7	.5								3.3	5.6
NNW	1.4	1.1	.5	.1								3.1	4.6
VARB													
CALM												41.7	
	33.0	18.2	5.4	1.6								100.0	2.2

TOTAL NUMBER OF OBSERVATIONS

808

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB MO  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.3	3.0	1.6	.1								6.0	4.6
NNE	2.6	.9	.4									3.8	3.2
NE	5.7	1.2	.5									7.4	2.9
ENE	5.4	2.3	1.2	.4								9.4	3.9
E	2.7	2.6	.5									5.8	3.7
ESE	1.0	1.6	.4									3.0	4.3
SE	.5	1.2	.4	.1								2.2	5.2
SSE	.2	1.4	1.1									2.7	6.1
S	1.2	1.9	1.0	.1								4.2	5.0
SSW	.4	.1	.2									.7	4.2
SW	.7	.5	.4	.1								1.7	4.9
WSW	.5	.4	.1									1.0	4.3
W	.6	.4	.6	.4								2.0	6.5
WNW	.7	.6	.9	.4	.1							2.7	7.1
NW	2.0	1.6	1.6	1.8	.2							6.9	7.2
NNW	1.6	2.5	2.1	.4								6.5	5.7
VARB		.1	.9	.5								1.5	9.8
CALM												30.4	
	29.3	22.2	13.8	4.0	.4							100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 810

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1200-1400

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.1	1.1									4.1	4.6
NNE	2.0	1.1	.5									3.6	3.8
NE	1.0	1.2	.6	.1								3.0	5.0
ENE	.5	1.2	.9	.1								2.7	6.0
E	1.7	1.4	.7	.1								4.0	4.6
ESE	.7	.7	.4									1.9	4.3
SE	.7	1.6	.5	.2								3.1	5.2
SSE	.5	1.5	.7	.1								2.8	5.4
S	2.2	2.8	.9	.1								6.1	4.7
SSW	1.1	2.0	.7	.2		.1						4.2	5.8
SW	2.1	1.5	1.1	.4	.2							5.3	5.7
WSW	1.6	1.0	.5	.7								3.8	5.8
W	3.1	2.7	2.7	1.1	.4							10.0	6.5
WNW	2.0	2.6	3.0	2.3	.1	.1						10.1	7.8
NW	2.0	1.9	2.5	3.2	.6	.2						10.4	8.9
NNW	2.8	2.5	1.9	.5	.1							7.8	5.6
VARM		.1	3.2	1.9	.2							5.4	10.1
CALM												11.7	
	26.0	26.9	21.9	11.2	1.7	.5						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

809

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

2  
GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

NOV

MONTH

ALL WEATHER

CLASS

1500-1700

HOURLS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	.4	.5									3.0	3.3
NNE	1.0	1.0	.2									2.2	3.9
NE	.6	1.2	.2	.1								2.2	5.1
ENE	.6	1.0	.5									2.1	4.9
E	.5	1.6	.6									2.7	5.0
ESE	.6	.7	.1									1.5	3.8
SE	.5	.9	.4	.1								1.9	5.1
SSE	.2	.5	.1									.9	4.7
S	1.4	1.1	.7	.5								3.7	5.5
SSW	1.7	1.6	1.2	.4								4.9	5.6
SW	2.5	1.0	.5									4.0	3.5
WSW	1.5	1.6	1.6	.1	.4							5.2	6.5
W	2.7	5.6	5.8	2.7	.1							16.9	7.1
WNW	2.7	6.8	5.1	2.8	.1							17.3	7.1
NW	3.2	3.3	4.1	2.2	.7							13.6	7.4
NNW	1.6	1.0	1.1	.8								4.2	5.6
VARBL			2.5	1.5	.1							4.1	10.4
CALM												9.8	
	23.5	29.0	25.3	11.0	1.5							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

810

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEAR

NOV  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.2	1.0									3.3	5.2
NNE	.4	.1	.1									.6	3.6
NE	3.8	.5	.2	.1								4.7	3.2
ENE	4.7	1.6	.2									6.6	3.0
E	3.6	1.5	.4									5.4	3.0
ESE	.2	.4	.1									.7	4.2
SE	.2	.1										.4	2.7
SSE	.6	.1										.7	2.5
S	2.5	1.6	.7									4.8	4.2
SSW	.9	1.2	.6									2.7	4.6
SW	1.1	1.9	.2									3.2	4.2
WSW	.9	.5	.6	.1								2.1	5.0
W	4.6	4.2	2.5	.7		.1						12.1	5.3
WNW	2.6	1.9	1.9	.4		.1						6.8	5.4
NW	1.6	1.9	2.4	.5								6.3	6.1
NNW	1.2	.6	1.0	.2								3.1	5.6
VARBL			.1									.1	10.0
CALM												36.1	
	30.1	19.3	12.1	2.1		.2						100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

408

2 GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

NOV

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.7	1.1	.2								4.9	5.2
NNE	1.5	.4	.2									2.1	3.5
NE	4.3	2.1	.2									6.7	3.2
ENE	8.7	5.9	.5									15.1	3.3
E	4.9	4.8	.1									9.9	3.4
ESE	.6											.6	2.6
SE	.9	.1	.2									1.2	3.2
SSE	.4	.7	.4									1.5	5.0
S	.5	1.0	.1									1.6	4.0
SSW	.2	.7										1.0	3.8
SW	.2	.2	.2									.7	5.0
WSW	.4	.7	.5									1.6	5.0
W	.9	.7	1.0	.1	.1	.1						3.0	7.0
WNW	.7	1.0	1.2	.6	.4							4.0	8.3
NW	.6	1.6	1.7	.4								4.3	6.7
NNW	1.4	2.2	2.2	.4								6.2	5.8
VARBL													
CALM												35.6	
	28.1	24.1	9.9	1.7	.5	.1						100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

809

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

NOV

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	1.7	.9	.1								5.1	4.3
NNE	1.9	.7	.2									2.8	3.2
NE	3.8	1.6	.2	.0								5.6	3.2
ENE	6.4	3.8	.5	.1								10.7	3.3
E	4.2	2.7	.4	.0								7.3	3.4
ESE	.7	.5	.2									1.4	3.8
SE	.5	.7	.3	.1								1.5	4.6
SSE	.5	.8	.6	.0								2.0	5.3
S	1.2	1.3	.5	.1								3.1	4.6
SSW	.6	.8	.4	.1		.0						1.8	5.0
SW	.9	.7	.3	.1	.0							2.1	4.6
WSW	.6	.6	.4	.1	.0							1.8	5.7
W	1.7	1.9	1.7	.7	.1	.0						6.2	6.5
WNW	1.4	1.8	1.8	1.0	.1	.0						6.1	7.0
NW	1.7	1.6	1.9	1.2	.2	.0						6.7	7.3
NNW	1.6	1.7	1.3	.4	.0							5.0	5.5
VARBL		.0	.8	.5	.0							1.4	10.3
CALM												29.3	
	30.2	22.8	12.4	4.6	.6	.1						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

6473

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC

MONTH

ALL WEATHER

CLASS

0000-0200

NOON (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.6	1.1	.7	.1								3.5	4.7
NNE	1.2	.4	.1									1.7	3.3
NE	3.6	1.0										4.6	2.5
ENE	8.4	5.7	.1									14.3	3.2
E	9.1	4.1										13.2	2.8
ESE	1.0	.7										1.7	3.1
SE	1.0	.5										1.4	3.4
SSE	.6	.4	.1	.1								1.2	4.6
S	.7	.6										1.3	3.3
SSW	.6	.4	.2									1.2	3.7
SW	.1											.1	2.0
WSW	.1	.1	.2	.1								.6	6.8
W	.6	.4	.5	.4								1.8	6.7
WNW	1.1	1.1	.5	.5	.1							3.2	6.2
NW	1.2	1.8	.7	.4								4.1	5.2
NNW	1.3	1.9	2.2	.5								5.9	6.1
VARBL				.1								.1	12.0
CALM												40.2	
	32.1	20.0	5.4	2.2	.1							100.0	2.4

TOTAL NUMBER OF OBSERVATIONS

835

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220

OSAN AB KO

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0300-0500

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.8	1.7	1.0									4.4	4.4
NNE	.8	.5	.2									1.6	3.5
NE	4.9	.8	.2									6.0	2.7
ENE	10.0	4.7										14.7	2.9
E	8.7	4.2										12.9	3.0
ESE	.8	.6	.1									1.6	3.5
SE	.2	.7	.1	.1								1.2	5.0
SSE	.1	.5	.7	.1								1.4	7.0
S	.5	.2										.7	2.7
SSW	.2	.2	.1									.6	4.4
SW	.4	.1										.5	2.8
WSW	.2	.8	.1									1.2	4.6
W	.6	.6	.4	.4								1.9	5.8
WNW	1.2	.5	.4	.2	.1							2.4	5.7
NW		2.0	1.3	.6								3.9	7.3
NNW	1.1	1.7	1.4	.2								4.4	5.7
VARBL													
CALM												40.6	
	31.7	19.9	6.1	1.7	.1							100.0	2.1

TOTAL NUMBER OF OBSERVATIONS

836



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC

MONTH

ALL WEATHER

CLASS

0600-0800

OURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.8	.8									4.4	4.4
NNE	1.0	.5	.2									1.7	3.9
NE	3.6	1.7										5.3	2.6
ENE	11.0	5.7	.1									16.8	3.1
E	7.6	5.4	.4									13.4	3.3
ESE	.1	1.2	.1									1.4	4.9
SE	.2	.5	.5	.1								1.3	5.8
SSE	.7	.5	.5	.1								1.8	4.7
S	.5	.4	.4									1.2	4.8
SSW	.4	.1	.1									.6	4.0
SW	.5	.2	.2									1.0	3.9
WSW		.4		.2								.6	7.2
W	.5	.4	.4	.4								1.6	6.7
WNW	.2	.1	.2	.7								1.3	10.1
NW	.2	.7	.7	.5								2.2	8.1
NNW	1.2	1.4	1.1									3.7	4.9
VARBL			.1									.1	10.0
CALM												41.7	
	29.5	20.9	5.9	2.0								100.0	2.4

TOTAL NUMBER OF OBSERVATIONS

837

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

471220

STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC

MONTH

ALL WEATHER

CLASS

0900-1100

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	2.2	1.8	.1								6.3	5.0
NNE	1.9	.5	.4									2.7	3.0
NE	4.7	.7	.1									5.5	2.5
ENE	8.2	3.8	.1									12.2	3.0
E	4.3	3.6	.7									8.6	3.5
ESE	1.3	.6	.4									2.3	3.6
SE	.7	1.2	.2	.1								2.3	5.1
SSE	1.1	1.1	1.2	.1								3.5	5.4
S	.8	1.3	.2									2.4	4.5
SSW	1.0	.5										1.4	3.3
SW	.5	.1	.2	.1								1.0	5.5
WSW	.5	.2	.1	.1								1.0	4.9
W	.6		.4		.2	.1						1.3	9.2
WNW	.8	.6	.6	1.1		.1						3.2	8.4
NW	1.8	.6	1.7	.8								4.9	6.2
NNW	1.6	1.7	2.3	.7								6.2	6.3
VARBL			.6	.2								.8	10.0
CALM												34.4	
	32.0	18.6	11.0	3.5	.2	.2						100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

837

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471227  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC

MONTH

ALL WEATHER

CLASS

1200-1400

NOVSD (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.7	.8	.1								4.7	4.5
NNE	.4	.4										.7	3.2
NE	.6	.1										.7	2.5
ENE	1.1	1.1										2.2	3.5
E	.2	1.1	.8	.1								2.3	6.1
ESE	.1	.4	.1									.6	4.8
SE	.4	1.0	.4	.1								1.8	6.0
SSE	1.3	1.9	1.0	.2								4.4	5.1
S	2.6	3.5	.6	.2								6.9	4.4
SSW	1.9	2.5	.8									5.3	4.3
SW	2.0	1.7	.4	.7								4.8	5.1
WSW	2.5	2.0	.8									5.4	4.1
W	2.8	1.8	1.6	.5	.2							6.8	5.7
WNW	2.8	2.2	4.5	2.9	.4	.5						13.2	8.4
NW	1.8	1.3	4.1	3.9	.1	.1						11.4	9.1
NNW	2.4	2.2	2.2	.7								7.4	5.8
VARBL			2.2	.6								2.8	9.4
CALM												18.8	
	24.9	24.6	20.2	10.2	.7	.6						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.5	.5									1.9	4.6
NNE	.7	.1										.8	3.0
NE	.4	.4	.1									.8	4.0
ENE	.8	1.0										1.8	3.5
E	1.4	.7										2.2	3.1
ESE	.7	.6	.1									1.4	3.4
SE	1.0	.5	.1									1.6	3.4
SSE	1.1	1.2	.1									2.4	3.9
S	1.6	1.9	.2	.1								3.8	4.1
SSW	2.5	1.7	1.0	.4								5.5	4.7
SW	2.4	1.7	.8	.4								5.3	4.6
WSW	1.4	2.0	1.0		.1							4.5	5.1
W	2.9	4.7	3.7	1.0	.1	.1						12.4	6.3
WNW	2.0	6.0	6.7	3.9	.6	.1						19.4	8.0
NW	2.0	3.7	4.3	3.5	.2	.1						13.9	8.2
NNW	1.9	2.0	1.6	.8								6.3	5.7
VARBL			1.2									1.2	8.3
CALM												14.8	
	23.8	28.6	21.4	10.0	1.1	.4						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471223  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.2										1.0	2.8
NNE	.6											.6	1.6
NE	1.3	.6										1.9	2.8
ENE	4.2	1.7	.1									6.0	2.8
E	4.4	2.3										6.7	2.9
ESE	.5	.5	.1									1.1	4.0
SE	.4	.1		.1								.6	4.4
SSE	.7	1.7	.5									2.9	4.6
S	1.6	1.4	.2									3.2	3.6
SSW	1.9	.7	.5									3.1	3.7
SW	1.3	.6										1.9	3.0
WSW	1.1	.6										1.7	2.6
W	3.3	3.1	1.8	.2								8.5	4.5
WNW	3.0	3.1	1.4	1.0	.4							8.8	6.1
NW	1.8	1.8	1.9	1.1	.1							6.7	6.9
NNW	1.7	.5	.6	.2								3.0	4.8
VARBL			.4									.4	9.7
CALM												42.1	
	28.4	18.9	7.5	2.6	.5							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.2	.8									3.5	4.7
NNE	2.0	.5	.1									2.6	2.8
NE	3.2	.8	.1									4.2	2.7
ENE	9.2	5.1	.1									14.5	3.0
E	5.5	4.8	.1									10.4	3.3
ESE	.7	.2										1.0	2.8
SE	.6		.5									1.1	4.4
SSE	.5	.8	.4									1.7	4.7
S	.7	.6	.2									1.6	4.2
SSW	.1	.4	.1									.6	4.4
SW	.4	.4	.2									1.0	4.9
WSW	.1	.1										.2	4.5
W	.5	1.4	.4	.1								2.4	5.5
WNW	.7	1.3	.8	.5								3.3	6.6
NW	1.2	2.3	1.4	1.0								5.9	6.6
NNW	1.3	1.1	1.3	.8	.1							4.7	6.6
VARBL			.1									.1	8.0
CALM												41.5	
	28.2	21.0	6.8	2.4	.1							100.0	2.5

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.3	.8	.0								3.7	4.6
NNE	1.1	.3	.1									1.6	3.1
NE	2.8	.8	.1									3.6	2.7
ENE	6.6	3.6	.1									10.3	3.1
E	5.2	3.3	.3	.0								8.7	3.2
ESE	.7	.6	.1									1.4	3.7
SE	.6	.6	.2	.1								1.4	4.8
SSE	.8	1.0	.6	.1								2.4	5.0
S	1.1	1.2	.2	.0								2.6	4.1
SSW	1.1	.8	.4	.0								2.3	4.2
SW	.9	.6	.2	.1								1.9	4.5
WSW	.7	.8	.3	.1	.0							1.9	4.6
W	1.5	1.5	1.1	.4	.1	.0						4.6	5.8
WNW	1.5	1.9	1.9	1.3	.2	.1						6.9	7.6
NW	1.3	1.8	2.0	1.5	.1	.0						6.6	7.6
NNW	1.6	1.6	1.6	.5	.0							5.2	5.8
VARBL			.6	.1								.7	9.3
CALM												34.2	
	28.8	21.6	10.5	4.3	.4	.1						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

6692

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

ALL  
MONTH

ALL WEATHER  
CLASS

ALL  
MONTH (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.0	.4	.0	.0							3.1	4.0
NNE	1.4	.6	.2	.0								2.1	3.4
NE	2.6	1.1	.4	.1	.0							4.2	3.6
ENE	5.3	2.9	.7	.2	.0							9.0	3.6
E	4.3	2.7	1.0	.2	.0							8.2	4.1
ESE	.9	.7	.3	.1								2.0	4.4
SE	.8	.7	.3	.0								1.8	4.3
SSE	.9	.9	.4	.0								2.1	4.5
S	1.6	1.3	.4	.1	.0							3.4	4.2
SSW	1.4	1.2	.6	.2	.0	.0						3.5	5.1
SW	1.4	1.4	.7	.3	.1	.0	.0					3.8	5.4
WSW	1.3	1.4	.8	.3	.0	.0	.0					3.9	5.6
W	2.5	3.1	2.4	.9	.1	.0						9.0	6.2
WNW	1.6	1.9	1.7	.9	.1	.0						6.2	6.6
NW	1.4	1.5	1.3	.6	.1	.0						4.8	6.4
NNW	1.2	1.0	.7	.2	.0	.0						3.1	5.2
VARBL	.0	.1	1.2	.3	.0	.0						1.7	9.3
CALM												28.0	
	29.9	23.5	13.5	4.6	.5	.1	.0					100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

78618



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

ALL

MONTH

INSTRUMENT

CLASS

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

ALL

HOURE (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	.7	.3	.0								2.7	3.6
NNE	1.5	.6	.2	.0								2.3	3.3
NE	3.1	.8	.2	.1								4.2	2.9
ENE	7.2	2.7	.3	.0								10.3	3.0
E	5.6	2.2	.5	.1	.0							8.5	3.3
ESE	.7	.6	.2	.0								1.5	4.0
SE	.7	.5	.2									1.3	3.8
SSE	.8	.5	.3	.0								1.5	4.2
S	1.4	1.1	.4	.0								2.9	4.0
SSW	1.1	1.1	.9	.2	.0	.0						3.5	5.6
SW	1.1	1.3	1.1	.5	.1							4.1	6.5
WSW	1.3	1.4	1.2	.4	.0	.0						4.4	6.1
W	2.1	2.1	1.3	.6	.1	.0						6.1	5.8
WNW	1.3	1.0	.5	.3	.0	.0						3.2	5.2
NW	1.1	.5	.2	.1								2.0	4.3
NNW	.8	.5	.2	.0	.0							1.5	3.8
VARBL		.0	.1	.0								.1	8.3
CALM												40.0	
	31.4	17.6	8.1	2.5	.3	.1						100.0	2.6

TOTAL NUMBER OF OBSERVATIONS

9590

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	$\geq 0$
NO CEILING																
1800																
1500					91.0											92.6
1200																
1000																
900																
800																
700																
600																
500										97.4						98.1
400																
300																
200																
100																
0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

#### ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but < 3 miles; or ceiling  $\geq 500$  feet, but < 1500 feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (UT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	≥	≥0
NO CEILING	40.9	48.0	52.1	52.1	67.9	62.0	64.2	64.9	65.0	65.8	66.3	66.3	66.4	66.5	66.9	68.1
≥ 20000	42.0	49.3	53.7	53.7	63.2	64.3	66.5	67.6	67.7	68.5	68.9	68.9	69.1	69.2	69.5	70.8
≥ 18000	42.1	49.6	54.0	54.0	63.5	64.6	66.7	67.8	68.0	68.7	69.2	69.2	69.3	69.4	69.8	71.0
≥ 16000	42.1	49.6	54.0	54.0	63.5	64.6	66.7	67.8	68.0	68.7	69.2	69.2	69.3	69.4	69.8	71.0
≥ 14000	42.9	50.2	54.6	54.6	64.1	65.2	67.4	68.5	68.6	69.3	69.8	69.8	69.9	70.0	70.4	71.6
≥ 12000	42.9	50.3	54.9	54.9	64.6	65.7	67.8	68.9	69.1	69.8	70.3	70.3	70.4	70.5	70.9	72.1
≥ 10000	42.9	50.4	55.1	55.1	64.8	65.9	68.1	69.2	69.3	70.0	70.5	70.5	70.6	70.8	71.1	72.4
≥ 9000	42.9	50.7	55.3	55.3	65.0	66.1	68.3	69.4	69.5	70.3	70.8	70.8	70.9	71.0	71.4	72.6
≥ 8000	43.8	51.8	56.4	56.4	66.9	68.0	70.2	71.3	71.4	72.1	72.6	72.6	72.7	72.8	73.2	74.4
≥ 7000	44.0	51.9	56.5	56.5	67.1	68.2	70.4	71.5	71.6	72.4	72.8	72.8	73.0	73.1	73.4	74.7
≥ 6000	44.0	52.0	56.6	56.6	67.2	68.3	70.5	71.6	71.7	72.5	73.0	73.0	73.1	73.2	73.6	74.8
≥ 5000	44.6	52.6	57.5	57.5	68.1	69.2	71.5	73.1	73.2	73.9	74.4	74.4	74.5	74.7	75.0	76.2
≥ 4500	45.2	53.5	59.0	59.0	69.7	70.8	73.1	74.8	74.9	75.6	76.1	76.1	76.2	76.4	76.7	78.0
≥ 4000	48.6	57.0	62.9	62.9	74.5	75.6	78.6	80.3	80.4	81.1	81.7	81.7	82.0	82.1	82.5	83.7
≥ 3500	49.9	58.8	65.3	65.3	78.3	79.8	83.2	85.0	85.3	86.0	86.6	86.6	86.8	87.0	87.3	88.6
≥ 3000	51.4	61.0	68.2	68.2	82.5	84.0	88.1	90.0	90.4	91.1	92.1	92.2	92.6	92.7	93.1	94.4
≥ 2500	52.0	61.6	69.1	69.1	83.8	85.4	89.4	91.4	91.7	92.7	93.8	93.9	94.3	94.4	94.8	96.1
≥ 2000	52.1	61.9	69.4	69.4	84.3	85.9	89.9	91.8	92.2	93.3	94.4	94.5	94.9	95.0	95.4	96.7
≥ 1800	52.1	61.9	69.4	69.4	84.3	85.9	89.9	91.8	92.2	93.3	94.4	94.5	94.9	95.0	95.4	96.7
≥ 1500	52.3	62.4	70.0	70.0	85.0	86.6	90.6	92.6	92.9	94.0	95.1	95.2	95.6	95.7	96.1	97.4
≥ 1200	52.3	62.4	70.0	70.0	85.1	86.7	90.7	92.8	93.2	94.3	95.4	95.5	95.9	96.0	96.3	97.7
≥ 1000	52.3	62.4	70.0	70.0	85.5	87.1	91.2	93.3	93.7	94.8	95.9	96.0	96.3	96.5	96.8	98.2
≥ 900	52.3	62.4	70.0	70.0	85.5	87.1	91.2	93.3	93.7	94.8	95.9	96.0	96.3	96.5	96.8	98.2
≥ 800	52.3	62.4	70.0	70.0	85.5	87.1	91.2	93.3	93.7	94.8	95.9	96.0	96.3	96.5	97.0	98.3
≥ 700	52.3	62.4	70.0	70.0	85.5	87.2	91.4	93.4	93.8	94.9	96.0	96.1	96.5	96.6	97.1	98.4
≥ 600	52.3	62.4	70.0	70.0	85.5	87.2	91.4	93.4	93.8	95.0	96.1	96.2	96.6	96.7	97.2	98.5
≥ 500	52.3	62.4	70.0	70.0	85.5	87.2	91.4	93.4	93.9	95.1	96.3	96.5	96.8	97.0	97.6	98.9
≥ 400	52.3	62.4	70.0	70.0	85.5	87.2	91.4	93.4	93.9	95.1	96.3	96.5	96.8	97.0	97.6	98.9
≥ 300	52.3	62.4	70.0	70.0	85.5	87.2	91.4	93.4	93.9	95.1	96.3	96.5	97.0	97.1	97.7	99.3
≥ 200	52.3	62.4	70.0	70.0	85.5	87.2	91.4	93.4	94.2	95.4	96.6	96.7	97.2	97.3	98.2	99.8
≥ 100	52.3	62.4	70.0	70.0	85.5	87.2	91.4	93.5	94.3	95.5	96.7	96.8	97.3	97.4	98.3	100.0
≥ 0	52.3	62.4	70.0	70.0	85.5	87.2	91.4	93.5	94.3	95.5	96.7	96.8	97.3	97.4	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 821

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4712  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	37.1	44.4	49.3	49.3	58.5	59.9	61.2	62.6	62.9	63.3	63.6	63.6	63.9	64.0	64.5	66.3
≥ 20000	38.4	45.8	50.9	50.9	60.7	62.1	63.8	65.3	65.6	66.0	66.3	66.3	66.6	66.7	67.2	69.0
≥ 18000	38.8	46.4	51.5	51.5	61.3	62.7	64.4	65.9	66.3	66.6	66.9	66.9	67.2	67.4	67.9	69.6
≥ 16000	38.8	46.4	51.5	51.5	61.8	63.2	64.9	66.4	66.7	67.1	67.4	67.4	67.7	67.9	68.3	70.1
≥ 14000	39.4	47.0	52.1	52.1	62.5	63.8	65.5	67.0	67.4	67.7	68.0	68.0	68.3	68.5	69.0	70.7
≥ 12000	39.5	47.1	52.5	52.5	62.9	64.3	66.0	67.5	67.9	68.2	68.5	68.5	68.8	69.0	69.4	71.2
≥ 10000	39.6	47.2	52.8	52.8	63.3	64.7	66.4	67.9	68.2	68.6	68.8	68.8	69.2	69.3	69.8	71.5
≥ 9000	39.9	47.5	53.0	53.0	63.6	64.9	66.6	68.1	68.5	68.8	69.1	69.1	69.4	69.6	70.1	71.8
≥ 8000	40.5	48.5	54.0	54.0	64.5	65.9	67.7	69.2	69.6	69.9	70.2	70.2	70.6	70.7	71.2	72.9
≥ 7000	40.9	48.8	54.4	54.4	65.3	66.6	68.5	69.9	70.3	70.7	70.9	70.9	71.3	71.4	71.9	73.6
≥ 6000	40.9	48.8	54.4	54.4	65.3	66.6	68.5	69.9	70.3	70.7	70.9	70.9	71.3	71.4	71.9	73.6
≥ 5000	41.6	49.6	55.3	55.3	66.4	67.7	69.6	71.2	71.5	71.9	72.1	72.1	72.5	72.6	73.1	74.8
≥ 4500	42.1	50.3	56.4	56.4	67.7	69.1	71.0	72.9	73.4	73.9	74.1	74.1	74.5	74.6	75.1	76.8
≥ 4000	45.5	54.1	60.9	60.9	73.1	74.6	76.9	79.6	80.2	80.7	81.0	81.0	81.3	81.5	82.0	83.7
≥ 3500	46.6	55.7	62.6	62.6	75.3	76.8	79.1	82.3	83.1	83.6	83.8	83.8	84.2	84.3	84.8	86.5
≥ 3000	49.1	58.5	66.4	66.4	80.7	82.3	84.9	88.5	89.6	90.4	90.7	90.8	91.2	91.3	91.8	93.5
≥ 2500	49.9	59.5	67.5	67.5	82.0	83.6	86.5	90.1	91.2	92.0	92.3	92.4	92.8	92.9	93.4	95.1
≥ 2000	50.2	60.0	68.1	68.1	82.7	84.3	87.2	90.8	91.9	92.8	93.0	93.1	93.5	93.6	94.1	95.8
≥ 1800	50.2	60.0	68.1	68.1	82.7	84.3	87.2	90.8	91.9	92.8	93.0	93.1	93.5	93.6	94.1	95.8
≥ 1500	50.4	60.2	68.3	68.3	83.3	84.9	87.9	91.4	92.5	93.4	93.6	93.7	94.1	94.2	94.7	96.4
≥ 1200	50.4	60.2	68.3	68.3	83.4	85.0	88.0	91.5	92.6	93.7	94.0	94.1	94.5	94.6	95.1	96.8
≥ 1000	50.4	60.2	68.6	68.6	83.8	85.4	88.3	91.9	93.0	94.1	94.6	94.7	95.1	95.2	95.7	97.4
≥ 900	50.4	60.2	68.6	68.6	83.8	85.4	88.3	91.9	93.0	94.2	94.7	94.8	95.2	95.3	95.8	97.5
≥ 800	50.6	60.4	68.7	68.7	83.9	85.5	88.6	92.1	93.3	94.5	95.0	95.1	95.5	95.6	96.1	97.8
≥ 700	50.6	60.4	68.8	68.8	84.2	86.0	89.1	92.6	93.7	95.0	95.5	95.6	96.0	96.1	96.6	98.3
≥ 600	50.6	60.4	68.8	68.8	84.2	86.0	89.2	92.8	93.9	95.1	95.6	95.7	96.1	96.2	96.7	98.4
≥ 500	50.6	60.4	68.8	68.8	84.2	86.0	89.2	92.8	93.9	95.1	95.6	95.8	96.2	96.3	96.8	98.5
≥ 400	50.7	60.5	69.0	69.0	84.3	86.1	89.3	93.0	94.1	95.3	95.8	96.1	96.4	96.7	97.2	99.0
≥ 300	50.7	60.5	69.0	69.0	84.4	86.3	89.4	93.1	94.2	95.5	96.0	96.2	96.6	96.8	97.3	99.3
≥ 200	50.7	60.5	69.0	69.0	84.4	86.3	89.4	93.1	94.2	95.5	96.0	96.2	96.6	96.8	97.3	99.3
≥ 100	50.7	60.5	69.0	69.0	84.4	86.3	89.4	93.1	94.2	95.5	96.0	96.2	96.6	96.8	97.3	99.3
≥ 0	50.7	60.5	69.0	69.0	84.4	86.3	89.6	93.3	94.4	95.6	96.2	96.4	96.8	97.1	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS 815

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JAN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥0	≥0
NO CEILING	29.8	34.6	41.8	40.8	50.0	52.0	54.7	56.7	57.6	58.5	58.6	59.1	59.7	59.9	60.2	61.5
≥ 20000	30.1	36.2	43.7	43.0	53.6	55.6	58.8	61.2	62.0	62.9	63.0	63.5	64.1	64.3	64.6	65.9
≥ 18000	30.5	36.5	43.4	43.4	54.0	56.1	59.6	61.9	62.7	63.6	63.7	64.2	64.8	65.1	65.3	66.7
≥ 16000	30.5	36.5	43.4	43.4	54.0	56.1	59.6	61.9	62.7	63.6	63.7	64.2	64.8	65.1	65.3	66.7
≥ 14000	31.5	36.6	43.5	43.5	54.3	56.4	59.8	62.3	63.1	64.0	64.1	64.6	65.2	65.4	65.7	67.0
≥ 12000	31.8	36.8	43.6	43.6	54.4	56.6	60.0	62.5	63.4	64.2	64.3	64.8	65.4	65.7	65.9	67.3
≥ 10000	31.4	37.4	44.4	44.4	55.8	58.0	61.5	64.0	64.8	65.7	65.8	66.4	67.0	67.3	67.5	68.9
≥ 9000	31.6	37.6	44.6	44.6	56.0	58.3	61.9	64.3	65.2	66.1	66.2	66.8	67.4	67.6	67.9	69.2
≥ 8000	32.4	38.5	45.7	45.7	57.2	59.6	63.1	65.6	66.4	67.3	67.4	68.0	68.6	68.9	69.1	70.5
≥ 7000	32.4	38.5	45.7	45.7	57.2	59.7	63.4	65.8	66.7	67.5	67.6	68.3	68.9	69.1	69.4	70.7
≥ 6000	32.4	38.5	45.7	45.7	57.2	59.7	63.4	65.8	66.7	67.5	67.6	68.3	68.9	69.1	69.4	70.7
≥ 5000	32.5	38.7	46.2	46.2	58.0	60.5	64.2	66.7	67.5	68.4	68.5	69.1	69.7	70.0	70.2	71.6
≥ 4500	32.6	39.0	46.6	46.6	58.8	61.4	65.3	67.9	68.9	69.7	69.9	70.5	71.1	71.3	71.6	72.9
≥ 4000	36.3	42.6	51.6	51.6	64.2	66.9	71.1	74.5	75.7	76.7	77.0	77.8	78.4	78.7	78.9	80.3
≥ 3500	37.4	44.0	53.3	53.3	66.5	69.4	73.7	77.2	78.4	79.5	79.9	80.9	81.5	81.7	82.0	83.3
≥ 3000	39.7	47.1	56.7	56.7	71.8	74.9	79.8	84.2	85.4	86.8	87.3	88.2	88.8	89.1	89.3	90.7
≥ 2500	40.0	47.7	57.6	57.6	72.9	76.0	81.7	86.3	87.6	89.1	89.6	90.6	91.2	91.4	91.7	93.0
≥ 2000	40.4	48.3	58.5	58.5	73.9	77.0	82.7	87.3	88.6	90.2	90.7	91.7	92.3	92.5	92.8	94.1
≥ 1800	40.4	48.3	58.5	58.5	73.9	77.0	82.7	87.3	88.7	90.3	90.8	91.8	92.4	92.6	92.9	94.2
≥ 1500	40.4	48.4	58.6	58.6	74.0	77.1	82.8	87.5	89.0	90.7	91.2	92.2	92.8	93.0	93.3	94.6
≥ 1200	40.6	48.5	58.7	58.7	74.1	77.2	83.0	87.6	89.1	90.8	91.3	92.3	92.9	93.1	93.4	94.7
≥ 1000	40.7	49.0	59.2	59.2	74.6	77.7	83.5	88.2	89.8	91.7	92.4	93.4	94.0	94.2	94.5	95.8
≥ 900	40.7	49.0	59.2	59.2	74.6	77.7	83.5	88.2	89.8	91.7	92.4	93.4	94.0	94.4	94.6	96.0
≥ 800	40.7	49.0	59.2	59.2	74.6	77.7	83.5	88.2	89.8	91.7	92.4	93.4	94.0	94.4	94.6	96.0
≥ 700	40.7	49.0	59.2	59.2	74.6	77.7	83.5	88.2	89.8	91.7	92.4	93.4	94.0	94.4	94.6	96.0
≥ 600	40.7	49.0	59.2	59.2	74.8	77.8	83.6	88.5	90.1	92.2	93.0	94.0	94.6	95.0	95.2	96.6
≥ 500	40.7	49.0	59.2	59.2	75.0	78.1	83.8	88.7	90.3	92.5	93.4	94.5	95.2	95.6	95.8	97.2
≥ 400	40.7	49.0	59.2	59.2	75.0	78.1	83.8	89.0	90.6	92.8	93.6	94.7	95.5	95.8	96.1	97.7
≥ 300	40.7	49.0	59.2	59.2	75.0	78.1	83.8	89.0	90.6	92.8	93.6	94.7	95.5	95.8	96.1	97.7
≥ 200	40.8	49.1	59.3	59.3	75.2	78.3	84.1	89.2	90.8	93.0	93.9	95.0	95.7	96.1	96.4	98.4
≥ 100	40.8	49.1	59.3	59.3	75.2	78.3	84.1	89.3	90.9	93.1	94.1	95.2	96.0	96.3	96.8	100.0
≥ 0	40.8	49.1	59.3	59.3	75.2	78.3	84.1	89.3	90.9	93.1	94.1	95.2	96.0	96.3	96.8	100.0

TOTAL NUMBER OF OBSERVATIONS 816

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

41121 OSAN AB KO

73-81

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS - LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	18.6	24.3	29.1	29.1	40.7	43.8	48.3	53.2	54.6	57.2	58.4	59.0	59.4	60.1	60.4	61.5
≥ 20000	19.6	26.2	31.5	31.5	44.6	47.9	53.1	58.7	60.5	63.2	64.5	65.2	65.5	66.3	66.5	67.6
≥ 18000	19.7	26.5	31.9	31.9	45.1	48.4	53.9	59.9	61.7	64.4	65.8	66.4	66.7	67.5	67.7	68.8
≥ 16000	19.7	26.5	31.9	31.9	45.2	48.5	54.0	60.1	62.0	64.7	66.0	66.6	67.0	67.7	68.0	69.1
≥ 14000	19.7	26.5	31.9	31.9	45.4	48.7	54.4	60.8	62.6	65.3	66.6	67.2	67.6	68.3	68.6	69.7
≥ 12000	19.7	26.5	31.9	31.9	45.5	48.9	54.6	61.2	63.1	65.8	67.1	67.7	68.1	68.8	69.1	70.2
≥ 10000	19.9	26.8	32.2	32.2	46.3	49.8	55.6	62.6	64.4	67.1	68.5	69.1	69.4	70.2	70.4	71.5
≥ 9000	20.0	26.9	32.4	32.4	46.9	50.4	56.2	63.2	65.0	67.7	69.1	69.7	70.0	70.8	71.0	72.1
≥ 8000	20.7	27.5	33.3	33.3	48.0	51.6	57.5	64.7	66.5	69.3	70.8	71.4	71.8	72.5	72.7	73.8
≥ 7000	21.0	28.0	33.7	33.7	48.5	52.2	58.3	65.8	67.6	70.4	71.9	72.5	72.9	73.6	73.8	74.9
≥ 6000	21.6	28.0	33.7	33.7	49.7	52.3	58.4	65.9	67.7	70.5	72.0	72.6	73.0	73.7	74.0	75.1
≥ 5000	21.6	29.0	34.8	34.8	50.2	54.0	60.3	67.8	69.7	72.5	74.0	74.6	74.9	75.7	75.9	77.0
≥ 4500	22.1	29.5	35.6	35.6	51.2	55.0	61.2	68.9	70.8	73.8	75.3	76.0	76.4	77.1	77.4	78.5
≥ 4000	23.3	31.1	37.8	37.8	53.9	57.7	64.3	73.0	75.1	79.0	80.7	81.5	82.0	82.8	83.0	84.1
≥ 3500	23.8	31.9	39.0	39.0	55.1	59.0	65.9	75.1	77.1	81.8	83.6	84.5	85.0	85.8	86.1	87.2
≥ 3000	25.1	33.3	41.3	41.3	58.3	62.5	69.7	79.7	81.9	86.8	88.9	90.0	90.6	91.4	91.7	92.8
≥ 2500	25.1	33.5	41.9	41.9	59.2	63.4	70.9	81.3	83.5	88.5	90.7	91.8	92.4	93.3	93.5	94.6
≥ 2000	25.4	33.9	42.4	42.4	60.0	64.3	71.8	82.2	84.4	89.6	92.1	93.2	93.8	94.6	94.9	96.0
≥ 1800	25.4	33.9	42.4	42.4	60.0	64.3	71.8	82.3	84.5	89.7	92.2	93.3	93.9	94.7	95.0	96.1
≥ 1500	25.4	34.0	42.5	42.5	60.3	64.5	72.2	82.9	85.1	90.3	92.8	94.0	94.6	95.5	95.7	96.8
≥ 1200	25.4	34.0	42.5	42.5	60.5	64.8	72.5	83.1	85.3	90.6	93.0	94.3	94.9	95.7	96.0	97.1
≥ 1000	25.4	34.1	42.8	42.8	60.8	65.0	72.7	83.5	85.7	91.1	93.5	94.7	95.4	96.2	96.5	97.6
≥ 900	25.4	34.1	42.8	42.8	60.8	65.0	72.7	83.5	85.7	91.1	93.5	94.7	95.4	96.2	96.5	97.6
≥ 800	25.4	34.1	42.8	42.8	60.8	65.0	72.7	83.5	85.7	91.1	93.5	94.7	95.4	96.2	96.5	97.6
≥ 700	25.4	34.1	42.8	42.8	60.8	65.0	72.7	83.5	85.7	91.1	93.5	94.7	95.4	96.2	96.5	97.6
≥ 600	25.4	34.1	42.8	42.8	60.9	65.3	73.0	83.7	85.9	91.3	93.8	95.1	96.0	96.8	97.1	98.3
≥ 500	25.4	34.1	42.8	42.8	60.9	65.3	73.0	83.7	85.9	91.4	93.9	95.2	96.1	96.9	97.2	98.7
≥ 400	25.4	34.1	42.8	42.8	60.9	65.3	73.0	83.7	85.9	91.6	94.1	95.5	96.3	97.2	97.4	99.3
≥ 300	25.4	34.1	42.8	42.8	60.9	65.3	73.0	83.7	85.9	91.6	94.1	95.5	96.5	97.3	97.6	99.4
≥ 200	25.4	34.1	42.8	42.8	60.9	65.3	73.0	83.7	85.9	91.6	94.1	95.5	96.5	97.3	97.7	99.6
≥ 100	25.4	34.1	42.8	42.8	60.9	65.3	73.0	83.7	85.9	91.6	94.1	95.5	96.5	97.3	97.8	100.0
≥ 0	25.4	34.1	42.8	42.8	60.9	65.3	73.0	83.7	85.9	91.6	94.1	95.5	96.5	97.3	97.8	100.0

TOTAL NUMBER OF OBSERVATIONS 818

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47120 OSAN AB KO

73-81

JAN

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING	42.4	50.2	52.9	52.9	58.9	59.1	60.6	61.6	61.8	62.4	62.0	63.0	63.2	63.2	63.2	63.2
≥ 20000	46.5	55.9	59.1	59.1	65.6	66.0	67.8	68.9	69.1	69.9	70.4	70.5	70.6	70.6	70.6	70.6
≥ 18000	47.2	56.8	60.4	60.4	67.1	67.6	69.4	70.5	70.7	71.5	72.0	72.1	72.2	72.2	72.2	72.2
≥ 16000	47.2	56.8	60.4	60.4	67.1	67.6	69.4	70.5	70.7	71.5	72.0	72.1	72.2	72.2	72.2	72.2
≥ 14000	47.3	57.3	60.9	60.9	67.6	68.0	69.9	71.0	71.2	72.0	72.4	72.6	72.7	72.7	72.7	72.7
≥ 12000	47.7	58.0	61.6	61.6	68.5	69.1	71.0	72.1	72.3	73.0	73.5	73.7	73.8	73.8	73.8	73.8
≥ 10000	48.8	59.5	63.0	63.0	70.4	71.0	72.8	73.9	74.1	74.9	75.4	75.5	75.6	75.6	75.6	75.6
≥ 9000	48.8	59.8	63.4	63.4	71.1	71.7	73.5	74.6	74.9	75.6	76.1	76.2	76.3	76.3	76.3	76.3
≥ 8000	49.3	60.9	64.8	64.8	72.8	73.5	75.6	77.0	77.2	77.9	78.4	78.5	78.7	78.7	78.7	78.7
≥ 7000	49.9	61.7	65.7	65.7	73.9	74.6	76.8	78.2	78.4	79.1	79.6	79.8	79.9	79.9	79.9	79.9
≥ 6000	50.1	62.2	66.2	66.2	74.4	75.1	77.3	78.7	78.9	79.6	80.1	80.2	80.4	80.4	80.4	80.4
≥ 5000	51.2	63.7	67.9	67.9	76.1	76.8	79.0	80.4	80.6	81.3	81.8	82.0	82.1	82.1	82.1	82.1
≥ 4500	51.7	64.1	68.8	68.8	77.1	77.8	80.0	81.3	81.6	82.3	82.8	82.9	83.0	83.0	83.0	83.0
≥ 4000	52.8	66.0	70.9	70.9	80.4	81.2	83.7	85.4	85.6	86.3	86.8	87.0	87.1	87.1	87.1	87.1
≥ 3500	54.1	67.8	72.8	72.8	82.6	83.4	86.0	87.7	87.9	88.8	89.3	89.4	89.5	89.5	89.5	89.5
≥ 3000	56.3	70.5	76.1	76.1	87.2	88.3	91.2	93.0	93.3	94.1	94.6	94.9	95.1	95.2	95.2	95.2
≥ 2500	56.6	71.1	76.8	76.8	88.2	89.4	92.3	94.1	94.4	95.2	95.7	96.0	96.2	96.3	96.3	96.3
≥ 2000	56.8	71.6	77.4	77.4	89.0	90.2	93.2	95.1	95.4	96.2	96.7	97.0	97.2	97.3	97.3	97.3
≥ 1800	56.8	71.6	77.4	77.4	89.1	90.4	93.7	95.6	95.9	96.7	97.2	97.4	97.7	97.8	97.8	97.8
≥ 1500	57.1	72.0	77.8	77.8	89.5	90.7	94.0	96.0	96.2	97.1	97.6	97.8	98.0	98.2	98.2	98.2
≥ 1200	57.1	72.0	77.8	77.8	89.5	90.7	94.0	96.0	96.2	97.1	97.6	97.8	98.0	98.2	98.2	98.2
≥ 1000	57.1	72.2	78.3	78.0	90.0	91.2	94.6	96.6	96.8	97.8	98.4	98.7	98.9	99.0	99.0	99.0
≥ 900	57.1	72.2	78.3	78.0	90.0	91.2	94.6	96.6	96.8	97.8	98.4	98.7	98.9	99.0	99.0	99.0
≥ 800	57.1	72.2	78.3	78.0	90.1	91.3	94.8	96.7	97.0	97.9	98.5	98.8	99.0	99.1	99.1	99.1
≥ 700	57.1	72.2	78.3	78.0	90.1	91.3	94.8	96.7	97.0	97.9	98.5	98.8	99.0	99.1	99.1	99.1
≥ 600	57.1	72.2	78.3	78.0	90.1	91.3	94.9	97.0	97.2	98.2	98.8	99.0	99.4	99.5	99.5	99.5
≥ 500	57.1	72.2	78.3	78.0	90.1	91.3	94.9	97.0	97.2	98.2	98.8	99.1	99.5	99.8	99.8	99.8
≥ 400	57.1	72.3	78.2	78.2	90.2	91.5	95.0	97.2	97.4	98.4	99.1	99.4	99.8	100.0	100.0	100.0
≥ 300	57.1	72.3	78.2	78.2	90.2	91.5	95.0	97.2	97.4	98.4	99.0	99.4	99.8	100.0	100.0	100.0
≥ 200	57.1	72.3	78.2	78.2	90.2	91.5	95.0	97.2	97.4	98.4	99.0	99.4	99.8	100.0	100.0	100.0
≥ 100	57.1	72.3	78.2	78.2	90.2	91.5	95.0	97.2	97.4	98.4	99.0	99.4	99.8	100.0	100.0	100.0
≥ 0	57.1	72.3	78.2	78.2	90.2	91.5	95.0	97.2	97.4	98.4	99.0	99.4	99.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 820

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4112  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥4
NO CEILING	47.5	55.6	57.8	57.8	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥20000	34.3	65.0	67.6	67.6	69.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥18000	55.9	66.5	69.3	69.3	71.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥16000	55.9	66.7	69.5	69.5	71.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥14000	55.9	66.8	69.6	69.6	71.3	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥12000	56.2	67.3	70.1	70.1	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥10000	57.6	69.3	72.6	72.6	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥9000	57.7	69.5	72.7	72.7	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥8000	59.5	71.5	74.9	74.9	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥7000	60.2	72.4	75.9	75.9	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥6000	57.4	72.6	76.1	76.1	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥5000	61.8	74.5	78.1	78.1	81.2	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥4500	62.8	75.6	79.2	79.2	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥4000	64.1	78.3	82.7	82.7	86.3	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥3500	65.7	81.1	84.5	84.5	88.5	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥3000	67.9	83.8	88.8	88.8	93.5	93.9	94.2	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥2500	67.9	83.9	89.1	89.1	93.8	94.3	94.8	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥2000	68.2	84.5	89.8	89.8	94.8	95.4	95.9	96.1	96.2	96.4	96.5	96.5	96.5	96.6	96.6	96.6
≥1800	68.2	84.5	89.8	89.8	94.8	95.4	95.9	96.1	96.2	96.4	96.5	96.5	96.5	96.6	96.6	96.6
≥1500	68.4	84.8	90.2	90.2	95.5	96.1	96.6	97.1	97.2	97.5	97.7	97.8	97.8	97.9	97.9	97.9
≥1200	68.4	84.8	90.2	90.2	95.5	96.1	96.6	97.1	97.2	97.5	97.7	97.8	97.8	97.9	97.9	97.9
≥1000	68.4	84.8	90.2	90.2	95.5	96.4	96.8	97.6	97.7	98.1	98.3	98.4	98.4	98.5	98.5	98.5
≥900	68.4	85.1	90.4	90.4	96.0	96.8	97.3	98.1	98.2	98.5	98.8	98.9	98.9	99.0	99.0	99.0
≥800	68.4	85.1	90.4	90.4	96.2	97.2	97.7	98.4	98.5	98.9	99.2	99.3	99.3	99.4	99.4	99.4
≥700	68.4	85.1	90.4	90.4	96.2	97.2	97.7	98.4	98.8	99.2	99.4	99.5	99.5	99.6	99.6	99.6
≥600	68.4	85.1	90.4	90.4	96.2	97.2	97.8	98.9	99.0	99.4	99.6	99.8	99.8	99.9	99.9	99.9
≥500	68.4	85.1	90.4	90.4	96.2	97.2	97.8	98.9	99.0	99.4	99.6	99.8	99.8	99.9	99.9	99.9
≥400	68.4	85.1	90.4	90.4	96.2	97.2	97.8	98.9	99.0	99.4	99.6	99.8	99.8	99.9	99.9	99.9
≥300	68.4	85.1	90.4	90.4	96.2	97.2	97.8	98.9	99.0	99.4	99.6	99.8	99.8	99.9	99.9	100.0
≥200	68.4	85.1	90.4	90.4	96.2	97.2	97.8	98.9	99.0	99.4	99.6	99.8	99.8	99.9	99.9	100.0
≥100	68.4	85.1	90.4	90.4	96.2	97.2	97.8	98.9	99.0	99.4	99.6	99.8	99.8	99.9	99.9	100.0
≥0	68.4	85.1	90.4	90.4	96.2	97.2	97.8	98.9	99.0	99.4	99.6	99.8	99.8	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 825

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	45.7	52.7	58.1	58.1	62.6	63.2	64.3	64.4	64.4	64.7	64.7	64.8	64.8	64.8	64.8	64.8
≥20000	47.3	57.2	63.5	63.5	69.4	70.0	71.1	71.2	71.2	71.5	71.5	71.6	71.6	71.6	71.6	71.6
≥18000	47.8	58.1	64.4	64.4	70.4	71.0	72.1	72.2	72.2	72.5	72.5	72.6	72.6	72.6	72.6	72.6
≥16000	47.8	58.4	64.7	64.7	70.6	71.2	72.3	72.5	72.5	72.7	72.7	72.8	72.8	72.8	72.8	72.8
≥14000	47.8	58.4	64.7	64.7	70.6	71.2	72.3	72.5	72.5	72.7	72.7	72.8	72.8	72.8	72.8	72.8
≥12000	48.4	59.3	65.7	65.7	71.6	72.2	73.3	73.4	73.4	73.7	73.7	73.8	73.8	73.8	73.8	73.8
≥10000	48.9	60.0	66.7	66.7	73.1	73.7	74.8	74.9	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.2
≥9000	48.9	60.0	66.7	66.7	73.1	73.7	74.8	74.9	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.2
≥8000	49.4	60.6	67.7	67.7	74.3	74.9	76.1	76.2	76.2	76.5	76.5	76.6	76.6	76.6	76.6	76.6
≥7000	50.0	61.4	68.6	68.6	75.4	76.0	77.2	77.3	77.3	77.5	77.5	77.7	77.7	77.7	77.7	77.7
≥6000	50.4	61.5	68.7	68.7	75.5	76.1	77.3	77.4	77.4	77.7	77.7	77.8	77.8	77.8	77.8	77.8
≥5000	50.4	62.4	69.5	69.5	76.6	77.2	78.8	78.9	79.0	79.2	79.2	79.4	79.4	79.4	79.4	79.4
≥4500	50.7	63.1	70.4	70.4	77.5	78.2	79.7	79.9	80.0	80.2	80.2	80.3	80.3	80.3	80.3	80.3
≥4000	53.2	65.8	73.8	73.8	81.6	82.3	83.9	84.3	84.5	84.7	84.7	84.8	84.8	84.8	84.8	84.8
≥3500	54.5	67.5	75.7	75.7	84.0	84.7	86.3	86.8	86.9	87.1	87.1	87.3	87.3	87.3	87.3	87.3
≥3000	56.8	70.6	83.0	80.0	90.2	90.9	92.6	93.4	93.6	93.9	93.9	94.1	94.1	94.1	94.1	94.1
≥2500	57.2	71.1	80.5	80.5	91.3	92.5	94.2	95.0	95.1	95.5	95.5	95.6	95.6	95.6	95.6	95.6
≥2000	57.2	71.1	80.5	80.5	91.6	92.8	94.5	95.4	95.5	96.0	96.0	96.2	96.2	96.4	96.5	96.5
≥1800	57.2	71.1	80.6	80.6	91.7	93.0	94.7	95.5	95.6	96.1	96.1	96.4	96.4	96.5	96.6	96.6
≥1500	57.2	71.1	80.7	80.7	92.7	93.9	95.8	96.8	97.0	97.6	97.6	97.8	98.1	98.2	98.3	98.3
≥1200	57.2	71.1	80.7	80.7	93.0	94.3	96.1	97.2	97.3	97.9	97.9	98.2	98.4	98.5	98.7	98.7
≥1000	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.6	97.7	98.5	98.5	98.8	99.0	99.2	99.3	99.3
≥900	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.6	97.7	98.5	98.7	98.9	99.2	99.3	99.4	99.4
≥800	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.6	97.7	98.5	98.7	98.9	99.2	99.3	99.4	99.4
≥700	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.7	97.8	98.7	98.8	99.0	99.3	99.4	99.5	99.5
≥600	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.7	97.8	98.7	98.8	99.0	99.3	99.4	99.5	99.5
≥500	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.7	97.9	98.9	99.0	99.3	99.5	99.6	99.9	99.9
≥400	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.7	97.9	98.9	99.0	99.3	99.5	99.6	99.9	99.9
≥300	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.7	97.9	98.9	99.0	99.3	99.5	99.6	99.9	99.9
≥200	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.7	97.9	98.9	99.0	99.3	99.5	99.6	99.9	99.9
≥100	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.7	97.9	98.9	99.0	99.3	99.5	99.6	99.9	99.9
≥0	57.2	71.1	80.8	80.8	93.2	94.5	96.5	97.7	97.9	98.9	99.0	99.3	99.5	99.6	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 824

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4122  
STATION

OSAN AFB KO

STATION NAME

73-81

YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5-16	≥4	≥0
NO CEILING	42.5	49.9	55.3	55.3	62.4	62.5	63.2	64.4	64.6	65.3	65.8	65.8	65.8	65.8	65.8	65.8	66.0
≥ 20000	45.1	53.2	58.8	58.8	67.1	67.4	68.3	69.5	69.7	70.4	70.9	70.9	70.9	70.9	70.9	70.9	71.1
≥ 18000	45.1	53.2	59.0	59.0	67.2	67.5	68.5	69.7	69.8	70.5	71.0	71.0	71.0	71.0	71.0	71.0	71.3
≥ 16000	45.1	53.2	59.0	59.0	67.2	67.5	68.5	69.7	69.8	70.5	71.0	71.0	71.0	71.0	71.0	71.0	71.3
≥ 14000	45.1	53.7	59.8	59.8	68.1	68.3	69.3	70.5	70.6	71.4	71.9	71.9	71.9	71.9	71.9	71.9	72.1
≥ 12000	45.1	54.0	60.3	60.3	68.6	68.8	69.8	71.0	71.1	71.9	72.4	72.4	72.4	72.4	72.4	72.4	72.6
≥ 10000	45.9	54.8	61.1	61.1	69.4	69.7	70.6	71.9	72.0	72.7	73.2	73.2	73.2	73.2	73.2	73.2	73.4
≥ 9000	45.9	54.8	61.1	61.1	69.4	69.7	70.6	71.9	72.0	72.7	73.2	73.2	73.2	73.2	73.2	73.2	73.4
≥ 8000	46.5	55.5	62.4	62.4	71.0	71.4	72.4	73.6	73.7	74.4	74.9	74.9	74.9	74.9	74.9	74.9	75.2
≥ 7000	47.0	56.0	62.9	62.9	71.5	71.9	72.8	74.1	74.2	74.9	75.4	75.4	75.4	75.4	75.4	75.4	75.6
≥ 6000	47.0	56.0	62.9	62.9	71.5	71.9	72.8	74.1	74.2	74.9	75.4	75.4	75.4	75.4	75.4	75.4	75.6
≥ 5000	47.4	56.4	63.5	63.5	72.4	72.8	74.1	75.3	75.5	76.2	76.7	76.7	76.7	76.7	76.7	76.7	77.0
≥ 4500	48.5	57.5	64.6	64.6	73.6	74.1	75.3	76.5	76.7	77.6	78.1	78.1	78.1	78.1	78.1	78.1	78.3
≥ 4000	51.5	61.7	68.2	68.2	77.7	78.6	79.9	81.4	81.6	82.5	82.9	82.9	83.1	83.1	83.1	83.1	83.3
≥ 3500	52.6	63.1	71.3	71.3	81.1	82.1	83.6	85.0	85.3	86.1	86.6	86.6	86.7	86.7	86.7	86.7	87.0
≥ 3000	55.2	66.1	75.4	75.4	87.2	88.3	89.9	91.6	91.8	93.1	93.8	93.8	93.9	93.9	93.9	93.9	94.3
≥ 2500	55.4	66.4	75.6	75.6	88.6	89.6	91.2	92.9	93.2	94.6	95.4	95.4	95.5	95.5	95.5	95.5	95.9
≥ 2000	55.5	66.6	75.9	75.9	88.8	90.0	91.8	93.5	93.8	95.4	96.1	96.1	96.2	96.2	96.2	96.2	96.6
≥ 1800	55.5	66.6	75.9	75.9	88.8	90.0	91.8	93.5	93.8	95.4	96.1	96.1	96.2	96.2	96.2	96.2	96.6
≥ 1500	55.5	66.9	76.1	76.1	89.4	90.7	92.7	94.4	94.6	96.2	97.0	97.0	97.1	97.1	97.1	97.1	97.4
≥ 1200	55.7	67.0	76.2	76.2	89.8	91.1	93.1	94.8	95.0	96.6	97.3	97.3	97.4	97.4	97.4	97.4	97.8
≥ 1000	55.8	67.1	76.4	76.4	90.0	91.4	93.5	95.4	95.6	97.6	98.3	98.3	98.4	98.4	98.4	98.4	98.8
≥ 900	55.8	67.1	76.4	76.4	90.0	91.4	93.7	95.6	95.9	97.8	98.5	98.5	98.7	98.7	98.7	98.7	99.0
≥ 800	55.8	67.1	76.4	76.4	90.0	91.4	93.7	95.6	95.9	97.8	98.7	98.7	98.8	98.8	98.8	98.8	99.1
≥ 700	55.8	67.1	76.4	76.4	90.0	91.4	93.7	95.6	95.9	97.8	98.7	98.7	98.8	98.8	98.8	98.8	99.1
≥ 600	55.8	67.1	76.4	76.4	90.0	91.4	93.7	95.6	95.9	97.8	98.7	98.7	98.8	98.8	98.8	98.8	99.1
≥ 500	55.8	67.1	76.4	76.4	90.0	91.4	93.7	95.6	95.9	97.9	98.9	98.9	99.0	99.0	99.0	99.1	99.6
≥ 400	55.8	67.1	76.4	76.4	90.0	91.4	93.7	95.6	95.9	97.9	98.9	98.9	99.0	99.0	99.0	99.1	99.6
≥ 300	55.8	67.1	76.4	76.4	90.0	91.4	93.7	95.6	95.9	97.9	98.9	98.9	99.0	99.0	99.0	99.1	99.8
≥ 200	55.8	67.1	76.4	76.4	90.0	91.4	93.7	95.6	95.9	97.9	98.9	98.9	99.0	99.0	99.0	99.3	100.0
≥ 100	55.8	67.1	76.4	76.4	90.0	91.4	93.7	95.6	95.9	97.9	98.9	98.9	99.0	99.0	99.0	99.3	100.0
≥ 0	55.8	67.1	76.4	76.4	90.0	91.4	93.7	95.6	95.9	97.9	98.9	98.9	99.0	99.0	99.0	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 821

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS OF DAY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥1/16	≥0
NO CEILING	37.9	45.0	49.5	49.5	56.7	57.7	59.5	60.9	61.3	62.1	62.4	62.6	62.8	63.0	63.1	63.8
≥ 20000	40.4	48.6	53.6	53.6	61.7	62.9	64.9	66.5	66.9	67.7	68.1	68.3	68.5	68.6	68.8	69.5
≥ 18000	40.9	49.3	54.3	54.3	62.5	63.6	65.7	67.4	67.8	68.6	69.0	69.2	69.4	69.5	69.7	70.4
≥ 16000	40.9	49.3	54.3	54.3	62.6	63.8	65.9	67.5	68.0	68.8	69.2	69.3	69.5	69.7	69.8	70.5
≥ 14000	41.1	49.6	54.7	54.7	63.0	64.2	66.3	68.0	68.4	69.2	69.6	69.8	70.0	70.2	70.3	71.0
≥ 12000	41.3	50.0	55.1	55.1	63.5	64.7	66.8	68.6	69.0	69.8	70.2	70.4	70.6	70.7	70.9	71.6
≥ 10000	41.9	50.7	56.0	56.0	64.7	65.9	68.1	69.9	70.3	71.1	71.5	71.7	71.9	72.1	72.2	72.9
≥ 9000	42.7	50.9	56.2	56.2	65.0	66.2	68.4	70.2	70.6	71.4	71.8	72.0	72.2	72.3	72.5	73.2
≥ 8000	42.8	51.9	57.4	57.4	66.5	67.8	70.0	71.9	72.3	73.1	73.6	73.7	73.9	74.1	74.3	75.0
≥ 7000	43.2	52.4	58.0	58.0	67.2	68.5	70.8	72.7	73.1	73.9	74.4	74.5	74.7	74.9	75.1	75.8
≥ 6000	43.3	52.5	58.1	58.1	67.4	68.7	71.0	72.9	73.3	74.1	74.5	74.7	74.9	75.1	75.2	75.9
≥ 5000	43.9	53.4	59.1	59.1	68.6	70.0	72.4	74.4	74.8	75.6	76.1	76.2	76.4	76.6	76.8	77.5
≥ 4500	44.5	54.1	60.1	60.1	69.8	71.1	73.6	75.6	76.1	77.0	77.4	77.6	77.8	77.9	78.1	78.8
≥ 4000	46.9	57.0	63.6	63.6	74.0	75.5	78.2	80.7	81.3	82.2	82.7	83.0	83.2	83.4	83.5	84.2
≥ 3500	48.1	58.7	65.6	65.6	76.5	78.0	80.9	83.5	84.1	85.3	85.8	86.0	86.3	86.4	86.6	87.3
≥ 3000	50.2	61.4	69.2	69.2	81.4	83.2	86.3	89.4	90.0	91.3	92.0	92.3	92.6	92.8	92.9	93.7
≥ 2500	50.5	61.9	69.8	69.8	82.5	84.3	87.7	90.8	91.5	92.9	93.5	93.8	94.1	94.3	94.5	95.2
≥ 2000	5.8	62.3	70.3	70.3	83.2	85.0	88.4	91.5	92.3	93.7	94.4	94.8	95.1	95.3	95.5	96.2
≥ 1800	50.8	62.3	70.3	70.3	83.2	85.0	88.5	91.6	92.4	93.8	94.5	94.9	95.2	95.4	95.6	96.3
≥ 1500	50.9	62.5	70.6	70.6	83.8	85.6	89.1	92.3	93.1	94.6	95.3	95.7	96.0	96.2	96.4	97.1
≥ 1200	50.9	62.5	70.6	70.6	83.9	85.8	89.3	92.5	93.3	94.8	95.5	95.9	96.2	96.4	96.6	97.4
≥ 1000	50.9	62.7	70.8	70.8	84.2	86.1	89.7	93.0	93.8	95.5	96.3	96.6	97.0	97.2	97.3	98.1
≥ 900	50.9	62.7	70.8	70.8	84.3	86.2	89.8	93.1	93.9	95.6	96.4	96.8	97.1	97.3	97.5	98.2
≥ 800	50.9	62.7	70.8	70.8	84.3	86.3	89.8	93.2	93.9	95.7	96.5	96.9	97.2	97.4	97.6	98.4
≥ 700	50.9	62.7	70.9	70.9	84.4	86.3	89.9	93.3	94.1	95.8	96.6	97.0	97.3	97.5	97.7	98.5
≥ 600	50.9	62.7	70.9	70.9	84.4	86.4	90.0	93.5	94.2	96.0	96.8	97.2	97.6	97.8	98.0	98.7
≥ 500	50.9	62.7	70.9	70.9	84.4	86.4	90.0	93.5	94.3	96.1	97.0	97.4	97.8	98.0	98.3	99.1
≥ 400	51.0	62.7	70.9	70.9	84.5	86.4	90.1	93.6	94.4	96.2	97.1	97.5	97.9	98.2	98.4	99.3
≥ 300	51.0	62.7	70.9	70.9	84.5	86.4	90.1	93.6	94.4	96.2	97.1	97.5	97.9	98.2	98.4	99.4
≥ 200	51.0	62.8	70.9	70.9	84.5	86.5	90.1	93.6	94.4	96.3	97.1	97.6	98.0	98.3	98.6	99.6
≥ 100	51.0	62.8	70.9	70.9	84.5	86.5	90.1	93.7	94.5	96.3	97.2	97.7	98.1	98.3	98.7	100.0
≥ 0	51.0	62.8	70.9	70.9	84.5	86.5	90.1	93.7	94.5	96.3	97.2	97.7	98.1	98.3	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 6560

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CLIMATE CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

47122

OSAN AB KO

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3000-0200

HOURS-151

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING	45.5	53.0	54.4	54.4	58.9	59.4	60.2	60.8	60.9	61.1	61.2	61.2	61.2	61.2	61.3	62.2
≥ 20000	48.4	54.0	58.5	58.5	64.6	65.2	66.0	66.5	66.7	66.8	66.9	66.9	66.9	66.9	67.1	67.9
IV 18000	48.6	54.5	59.0	59.0	65.2	65.7	66.5	67.1	67.2	67.3	67.5	67.5	67.5	67.5	67.6	68.4
IV 16000	48.6	54.5	59.0	59.0	65.2	65.7	66.5	67.1	67.2	67.3	67.5	67.5	67.5	67.5	67.6	68.4
IV 14000	48.6	54.5	59.0	59.0	65.2	65.7	66.5	67.1	67.2	67.3	67.5	67.5	67.5	67.5	67.6	68.4
IV 12000	49.3	55.3	59.8	59.8	66.5	67.1	68.2	68.7	68.9	69.0	69.1	69.1	69.1	69.1	69.3	70.1
IV 10000	51.1	57.4	61.9	61.9	68.7	69.3	70.4	70.9	71.0	71.2	71.3	71.3	71.3	71.3	71.4	72.3
IV 9000	51.4	58.1	62.6	62.6	69.5	70.1	71.2	71.7	71.9	72.0	72.1	72.1	72.1	72.1	72.3	73.1
IV 8000	52.0	58.7	63.9	63.9	71.3	71.9	73.0	73.5	73.6	73.8	73.9	73.9	73.9	73.9	74.0	74.9
IV 7000	52.7	59.4	64.8	64.8	72.1	72.7	73.8	74.3	74.5	74.6	74.7	74.7	74.7	74.7	74.9	75.7
IV 6000	52.7	59.4	64.8	64.8	72.1	72.7	73.8	74.5	74.6	74.7	74.9	74.9	74.9	74.9	75.0	75.8
IV 5000	53.4	60.1	65.4	65.4	72.8	73.4	74.5	75.1	75.3	75.4	75.5	75.5	75.5	75.5	75.7	76.5
IV 4500	53.8	60.5	65.8	65.8	73.2	73.8	74.9	75.5	75.7	75.8	76.0	76.0	76.0	76.0	76.1	76.9
IV 4000	57.0	63.7	69.3	69.3	76.9	77.5	78.7	79.4	79.5	79.6	79.8	79.8	79.8	79.8	79.9	80.7
IV 3500	59.2	66.1	72.3	72.3	80.1	80.6	81.8	82.5	82.8	82.9	83.1	83.1	83.1	83.1	83.2	84.0
IV 3000	62.0	69.5	76.1	76.1	85.1	85.7	86.9	87.6	87.8	88.0	88.1	88.1	88.1	88.1	88.3	89.1
IV 2500	63.3	71.4	78.4	78.4	88.0	88.5	89.9	90.7	91.0	91.1	91.3	91.3	91.3	91.3	91.4	92.2
IV 2000	64.2	72.7	79.6	79.6	90.0	91.1	92.5	93.4	93.7	93.9	94.0	94.0	94.0	94.0	94.1	94.9
IV 1800	64.3	72.8	79.8	79.8	90.3	91.4	92.8	93.7	94.0	94.1	94.3	94.3	94.3	94.3	94.4	95.2
IV 1500	64.9	73.8	80.7	80.7	91.3	92.5	93.9	94.8	95.2	95.5	95.6	95.6	95.6	95.6	95.8	96.6
IV 1200	65.0	74.2	81.1	81.1	92.3	93.6	95.1	96.0	96.7	97.0	97.1	97.1	97.1	97.1	97.3	98.1
IV 1000	65.2	74.5	81.4	81.4	92.8	94.0	95.6	96.7	97.4	97.7	97.8	97.8	97.8	97.8	98.0	98.8
IV 900	65.2	74.6	81.6	81.6	92.9	94.1	95.8	96.9	97.7	98.0	98.1	98.1	98.1	98.1	98.2	99.0
IV 800	65.3	74.7	81.7	81.7	93.0	94.3	95.9	97.0	97.8	98.1	98.2	98.2	98.2	98.2	98.4	99.2
IV 700	65.3	74.7	81.7	81.7	93.0	94.3	95.9	97.0	97.8	98.1	98.2	98.2	98.2	98.2	98.4	99.2
IV 600	65.3	74.7	81.7	81.7	93.0	94.3	95.9	97.1	98.0	98.2	98.4	98.4	98.4	98.4	98.5	99.3
IV 500	65.3	74.7	81.7	81.7	93.0	94.3	95.9	97.1	98.0	98.2	98.4	98.4	98.4	98.4	98.5	99.3
IV 400	65.3	74.7	81.7	81.7	93.0	94.3	95.9	97.1	98.0	98.2	98.4	98.4	98.4	98.4	98.5	99.3
IV 300	65.3	74.7	81.7	81.7	93.0	94.3	95.9	97.1	98.0	98.2	98.4	98.4	98.4	98.4	98.5	99.3
IV 200	65.3	74.7	81.7	81.7	93.0	94.3	95.9	97.1	98.0	98.2	98.4	98.4	98.4	98.4	98.5	99.3
IV 100	65.3	74.7	81.7	81.7	93.0	94.3	95.9	97.1	98.0	98.2	98.4	98.4	98.4	98.4	98.5	99.7
IV 0	65.3	74.7	81.7	81.7	93.0	94.3	95.9	97.1	98.0	98.2	98.4	98.4	98.4	98.4	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 732

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4712  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	41.4	45.1	51.5	50.5	55.3	56.1	56.5	56.7	57.1	57.9	58.0	58.2	58.2	58.2	58.2	59.1
≥ 20000	44.7	50.0	55.9	55.9	61.4	62.7	63.2	63.5	64.2	65.0	65.1	65.3	65.3	65.3	65.3	66.2
IV 18000	44.8	50.1	56.0	56.0	61.6	62.8	63.4	63.6	64.3	65.1	65.3	65.4	65.4	65.4	65.4	66.3
IV 16000	44.8	50.1	56.0	56.0	61.6	62.8	63.4	63.6	64.3	65.1	65.3	65.4	65.4	65.4	65.4	66.3
IV 14000	44.8	50.1	56.0	56.0	61.7	62.9	63.5	63.8	64.4	65.3	65.4	65.5	65.5	65.5	65.5	66.5
IV 12000	44.8	50.1	56.1	56.1	62.3	63.5	64.0	64.4	65.1	65.9	66.1	66.2	66.2	66.2	66.2	67.2
IV 10000	45.9	51.4	57.8	57.8	64.2	65.4	65.9	66.3	67.0	67.8	68.0	68.1	68.1	68.1	68.1	69.1
IV 9000	45.9	51.5	57.9	57.9	64.4	65.7	66.2	66.6	67.3	68.1	68.3	68.4	68.4	68.4	68.4	69.3
IV 8000	46.5	52.2	59.3	59.3	66.1	67.3	67.8	68.3	68.9	69.8	69.9	70.0	70.0	70.0	70.0	71.0
IV 7000	46.9	52.6	59.7	59.7	66.5	67.7	68.3	68.7	69.3	70.2	70.3	70.4	70.4	70.4	70.4	71.4
IV 6000	47.1	52.7	59.8	59.8	66.6	67.8	68.4	68.8	69.5	70.3	70.4	70.6	70.6	70.6	70.6	71.5
IV 5000	48.0	53.7	60.9	60.9	67.7	68.9	69.5	69.9	70.7	71.5	71.7	71.8	71.8	71.8	71.8	72.8
IV 4500	48.2	54.3	61.2	61.2	68.1	69.3	69.9	70.3	71.1	71.9	72.1	72.2	72.2	72.2	72.2	73.2
IV 4000	51.7	56.8	64.6	64.6	72.5	73.8	74.4	74.8	75.6	76.4	76.6	76.7	76.7	76.7	76.7	77.7
IV 3500	53.8	60.1	67.8	67.8	76.4	77.8	78.3	78.7	79.6	80.4	80.5	80.7	80.7	80.7	80.7	81.6
IV 3000	56.8	63.9	72.2	72.2	81.6	83.0	83.7	84.2	85.0	86.0	86.2	86.4	86.4	86.4	86.4	87.3
IV 2500	58.3	65.8	74.3	74.3	84.9	86.5	87.5	88.0	88.8	89.8	90.1	90.2	90.2	90.2	90.2	91.1
IV 2000	59.5	67.4	76.0	76.0	86.9	88.6	89.9	90.6	91.6	92.6	93.1	93.3	93.3	93.3	93.3	94.3
IV 1800	59.5	67.6	76.2	76.2	87.3	89.0	90.3	91.0	92.0	93.1	93.5	93.7	93.7	93.7	93.7	94.7
IV 1500	63.1	68.3	77.0	77.0	88.6	90.2	91.6	92.2	93.2	94.3	94.7	95.0	95.0	95.0	95.0	95.9
IV 1200	60.2	68.4	77.1	77.1	89.4	91.0	92.5	93.5	94.4	95.5	95.9	96.2	96.2	96.2	96.2	97.1
IV 1000	61.5	68.9	77.7	77.7	90.1	91.7	93.3	94.3	95.2	96.5	96.9	97.1	97.1	97.1	97.1	98.1
IV 900	60.5	68.9	77.7	77.7	90.1	91.7	93.3	94.3	95.4	96.6	97.0	97.3	97.3	97.3	97.3	98.2
IV 800	60.5	68.9	77.7	77.7	90.3	92.0	93.7	94.7	95.8	97.0	97.4	97.7	97.7	97.7	97.7	98.6
IV 700	60.5	68.9	77.7	77.7	90.3	92.0	93.7	94.7	95.8	97.0	97.4	97.7	97.7	97.7	97.7	98.6
IV 600	60.5	68.9	77.7	77.7	90.3	92.0	93.7	94.7	95.8	97.0	97.5	97.8	97.8	97.8	97.8	98.8
IV 500	60.5	68.9	77.7	77.7	90.3	92.0	93.9	94.8	95.9	97.1	97.7	98.0	98.0	98.0	98.0	98.9
IV 400	60.5	68.9	77.7	77.7	90.3	92.0	93.9	94.8	96.0	97.3	97.8	98.1	98.1	98.1	98.1	99.0
IV 300	60.5	68.9	77.7	77.7	90.3	92.0	93.9	94.8	96.0	97.3	97.8	98.1	98.1	98.1	98.1	99.0
IV 200	60.5	68.9	77.7	77.7	90.3	92.0	93.9	94.8	96.0	97.3	97.8	98.1	98.1	98.1	98.1	99.3
IV 100	61.5	68.9	77.7	77.7	90.3	92.0	93.9	94.8	96.0	97.3	97.8	98.1	98.1	98.1	98.1	99.7
IV 0	60.5	68.9	77.7	77.7	90.3	92.0	93.9	94.8	96.0	97.3	97.8	98.1	98.1	98.1	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 734

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4-172  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (LT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	28.5	34.9	41.9	41.9	49.9	51.7	53.6	55.4	55.9	57.4	57.5	57.7	57.7	57.7	57.7	58.5
≥ 20000	30.5	38.0	46.0	46.0	54.3	56.0	58.5	60.4	60.9	62.4	62.6	62.7	62.7	62.7	62.7	63.6
IV 18000	30.7	38.1	46.1	46.1	54.5	56.3	58.8	60.7	61.2	62.7	62.8	63.0	63.0	63.0	63.0	63.9
IV 16000	30.7	38.1	46.1	46.1	54.5	56.3	58.8	60.7	61.2	62.7	62.8	63.0	63.0	63.0	63.0	63.9
IV 14000	30.7	38.1	46.1	46.1	54.5	56.3	58.8	60.7	61.2	62.7	62.8	63.0	63.0	63.0	63.0	63.9
IV 12000	31.1	38.5	46.5	46.5	55.0	57.0	59.4	61.5	62.0	63.5	63.6	63.8	63.8	63.8	63.8	64.7
IV 10000	32.0	39.6	47.6	47.6	56.2	58.2	60.7	62.7	63.2	64.7	64.9	65.0	65.0	65.0	65.0	65.9
IV 9000	32.2	39.9	48.0	48.0	56.7	58.8	61.5	63.5	64.0	65.5	65.7	65.8	65.8	65.8	65.8	66.8
IV 8000	33.6	41.7	50.1	50.1	58.8	60.8	63.5	65.5	66.1	67.6	67.7	68.0	68.0	68.0	68.0	68.9
IV 7000	34.1	42.2	50.9	50.9	59.6	61.6	64.3	66.4	66.9	68.4	68.5	68.8	68.8	68.8	68.8	69.7
IV 6000	34.1	42.3	51.0	51.0	59.7	61.7	64.6	66.6	67.2	68.7	68.8	69.1	69.1	69.1	69.1	70.0
IV 5000	34.3	42.7	51.7	51.7	60.7	62.7	65.9	68.0	68.7	70.1	70.3	70.6	70.6	70.6	70.6	71.5
IV 4500	35.1	43.6	52.5	52.5	61.6	63.6	66.9	68.9	69.6	71.4	71.5	71.8	71.8	71.8	71.8	72.7
IV 4000	36.8	45.6	55.2	55.2	65.0	67.4	71.0	73.3	73.9	75.7	75.8	76.1	76.3	76.3	76.3	77.2
IV 3500	38.8	47.6	57.7	57.7	68.1	70.7	74.2	76.5	77.5	79.2	79.4	79.6	79.8	79.8	79.8	80.7
IV 3000	42.2	52.0	62.6	62.6	74.4	77.2	80.9	83.6	84.7	86.6	86.7	87.0	87.2	87.4	87.4	88.3
IV 2500	43.3	53.6	64.6	64.6	78.2	81.0	84.7	87.5	88.7	90.8	91.0	91.3	91.6	91.7	91.7	92.7
IV 2000	43.7	54.3	65.3	65.3	79.1	82.0	85.6	88.6	89.8	91.9	92.3	92.5	92.9	93.1	93.1	94.0
IV 1800	43.8	54.4	65.4	65.4	79.4	82.2	85.9	88.9	90.1	92.1	92.5	92.8	93.2	93.4	93.4	94.3
IV 1500	44.2	54.8	65.8	65.8	80.5	83.3	87.0	90.2	91.5	93.5	93.9	94.2	94.6	94.7	94.7	95.7
IV 1200	44.2	55.0	65.9	65.9	80.9	83.7	87.5	91.2	92.4	94.4	95.0	95.4	95.8	95.9	96.2	97.2
IV 1000	44.2	55.1	66.1	66.1	81.0	83.9	87.7	91.3	92.7	94.8	95.4	95.8	96.2	96.3	96.6	97.6
IV 900	44.2	55.2	66.2	66.2	81.1	84.0	87.8	91.5	92.8	95.0	95.5	95.9	96.3	96.5	96.7	97.7
IV 800	44.2	55.2	66.2	66.2	81.3	84.1	87.9	91.6	92.9	95.3	95.8	96.2	96.6	96.7	97.0	98.0
IV 700	44.2	55.2	66.2	66.2	81.3	84.1	87.9	91.6	92.9	95.3	95.8	96.2	96.6	96.7	97.0	98.0
IV 600	44.2	55.2	66.2	66.2	81.3	84.1	87.9	91.6	92.9	95.3	95.8	96.2	96.6	96.7	97.0	98.0
IV 500	44.2	55.2	66.2	66.2	81.3	84.1	87.9	91.9	93.2	95.5	96.2	96.6	97.0	97.2	97.4	98.4
IV 400	44.2	55.2	66.2	66.2	81.3	84.1	87.9	91.9	93.3	95.8	96.5	96.9	97.3	97.6	97.8	98.8
IV 300	44.2	55.2	66.2	66.2	81.4	84.3	88.1	92.0	93.6	95.9	96.6	97.0	97.6	97.8	98.1	99.2
IV 200	44.2	55.2	66.2	66.2	81.4	84.3	88.1	92.0	93.6	95.9	96.6	97.0	97.6	97.8	98.1	99.6
IV 100	44.2	55.2	66.2	66.2	81.4	84.3	88.1	92.0	93.6	95.9	96.6	97.0	97.7	98.0	98.2	99.9
IV 0	44.2	55.2	66.2	66.2	81.4	84.3	88.1	92.0	93.6	95.9	96.6	97.0	97.7	98.0	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 737



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

FEB  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

6900-1100  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	22.6	28.6	34.6	34.6	42.5	45.2	49.0	51.8	52.5	53.9	54.0	54.0	54.1	54.3	54.3	54.5
≥ 20000	23.9	31.1	38.4	38.4	47.4	50.3	54.3	57.5	59.1	60.5	60.8	60.8	60.9	61.0	61.0	61.6
≥ 18000	24.1	31.4	38.7	38.7	47.6	50.7	54.7	57.9	59.5	60.9	61.2	61.2	61.3	61.4	61.4	62.0
≥ 16000	24.1	31.5	38.8	38.8	47.8	50.9	54.9	58.2	59.8	61.2	61.4	61.4	61.7	61.8	61.8	62.4
≥ 14000	24.2	31.8	39.1	39.1	48.3	51.4	55.5	58.7	60.4	61.7	62.0	62.0	62.2	62.4	62.4	62.9
≥ 12000	24.4	32.2	40.1	40.1	49.4	52.5	56.6	59.8	61.6	63.2	63.5	63.5	63.7	63.9	63.9	64.4
≥ 10000	25.6	33.7	41.8	41.8	51.2	54.3	58.3	61.6	63.3	65.0	65.2	65.2	65.5	65.6	65.6	66.2
≥ 9000	25.7	33.8	41.9	41.9	51.3	54.4	58.5	61.7	63.5	65.1	65.4	65.4	65.6	65.8	65.8	66.3
≥ 8000	26.5	35.0	43.4	43.4	53.3	56.4	60.5	63.7	65.5	67.1	67.5	67.5	67.8	67.9	67.9	68.5
≥ 7000	27.5	36.5	44.9	44.9	54.9	58.1	62.1	65.4	67.1	68.7	69.1	69.1	69.4	69.6	69.6	70.1
≥ 6000	27.7	36.9	45.3	45.3	55.3	58.5	62.5	65.8	67.5	69.1	69.6	69.6	69.8	70.0	70.0	70.5
≥ 5000	29.8	38.3	46.8	46.8	57.4	60.5	65.1	68.6	70.5	72.1	72.5	72.5	72.8	72.9	72.9	73.5
≥ 4500	29.1	38.7	47.2	47.2	57.9	61.0	65.8	69.3	71.2	72.8	73.2	73.2	73.5	73.6	73.6	74.2
≥ 4000	30.0	39.9	48.7	48.7	60.4	63.5	68.3	72.3	74.2	76.2	76.6	76.9	77.1	77.3	77.3	77.8
≥ 3500	31.3	41.3	50.6	50.6	63.7	67.0	72.1	76.0	78.2	80.4	80.8	81.1	81.3	81.5	81.5	82.0
≥ 3000	32.7	43.6	53.0	53.0	67.4	70.9	77.0	81.9	84.0	86.3	87.0	87.3	88.0	88.1	88.1	88.6
≥ 2500	33.4	44.9	54.7	54.7	69.6	73.2	79.4	84.6	86.7	89.2	90.0	90.4	91.1	91.2	91.2	91.7
≥ 2000	34.2	45.9	55.8	55.8	71.0	74.8	81.2	86.5	88.8	91.2	92.2	92.6	93.2	93.4	93.4	93.9
≥ 1800	34.2	45.9	55.8	55.8	71.0	74.8	81.2	86.5	88.8	91.2	92.2	92.6	93.2	93.4	93.4	93.9
≥ 1500	34.5	46.1	56.2	56.2	71.6	75.4	81.9	87.3	89.6	92.0	93.1	93.5	94.2	94.3	94.3	94.9
≥ 1200	34.6	46.4	56.4	56.4	72.3	76.0	82.8	88.9	91.2	93.6	94.7	95.1	95.8	95.9	95.9	96.5
≥ 1000	34.3	46.5	56.6	56.6	72.5	76.3	83.2	89.6	91.9	94.6	95.7	96.1	96.8	96.9	96.9	97.4
≥ 900	34.8	46.5	56.6	56.6	72.5	76.3	83.2	89.6	91.9	94.6	95.7	96.1	96.8	96.9	96.9	97.4
≥ 800	34.8	46.5	56.6	56.6	72.5	76.3	83.2	89.6	91.9	94.6	95.7	96.1	96.8	96.9	96.9	97.4
≥ 700	34.8	46.7	56.8	56.8	72.8	76.6	83.6	90.0	92.3	95.4	96.5	96.9	97.6	97.7	97.7	98.2
≥ 600	34.8	46.7	56.8	56.8	72.9	76.7	83.8	90.3	92.6	95.8	97.0	97.4	98.1	98.2	98.2	98.8
≥ 500	34.8	46.7	56.8	56.8	72.9	76.7	83.8	90.3	92.6	95.9	97.3	97.7	98.4	98.5	98.5	99.1
≥ 400	34.3	45.7	56.8	56.8	72.9	76.7	83.8	90.3	92.6	95.9	97.3	97.7	98.4	98.5	98.5	99.1
≥ 300	34.3	46.7	56.8	56.8	72.9	76.7	83.8	90.3	92.6	95.9	97.3	97.7	98.4	98.5	98.6	99.2
≥ 200	34.3	46.7	56.8	56.8	72.9	76.7	83.8	90.3	92.6	95.9	97.3	97.7	98.4	98.5	98.9	99.6
≥ 100	34.3	46.7	56.8	56.8	72.9	76.7	83.8	90.3	92.6	95.9	97.3	97.7	98.4	98.5	98.9	100.0
≥ 0	34.8	46.7	56.8	56.8	72.9	76.7	83.8	90.3	92.6	95.9	97.3	97.7	98.4	98.5	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 739

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

112  
STATION

USAN AB AC

STATION NAME

73-61

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (LT)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0	≥ 0
NO CEILING	41.6	49.1	51.5	51.5	53.6	53.6	53.9	53.9	53.9	53.9	54.0	54.0	54.0	54.0	54.0	54.0
≥ 20000	45.3	54.5	57.8	57.8	61.1	61.2	61.6	61.6	61.6	61.6	61.8	61.8	61.8	61.8	61.8	61.8
≥ 18000	46.1	55.5	58.8	58.8	62.2	62.3	62.7	62.7	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.8
≥ 16000	46.4	56.1	59.5	59.5	62.8	63.0	63.5	63.5	63.5	63.5	63.6	63.6	63.6	63.6	63.6	63.6
≥ 14000	47.2	57.0	60.4	60.4	63.8	63.9	64.4	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6
≥ 12000	47.5	57.8	61.2	61.2	64.6	64.7	65.4	65.4	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5
≥ 10000	49.2	60.2	63.6	63.6	67.0	67.1	67.8	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9
≥ 9000	49.5	60.4	64.2	64.2	67.6	67.8	68.4	68.4	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6
≥ 8000	51.2	63.0	66.8	66.8	70.7	70.9	71.5	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8
≥ 7000	52.1	64.0	67.9	67.9	71.8	71.9	72.6	72.7	72.7	72.7	72.9	72.9	72.9	72.9	72.9	72.9
≥ 6000	52.8	65.0	69.0	69.0	73.1	73.3	73.9	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2
≥ 5000	54.4	67.1	71.1	71.1	75.4	75.5	76.2	76.3	76.3	76.3	76.5	76.5	76.5	76.5	76.5	76.5
≥ 4500	55.2	67.9	71.9	71.9	76.2	76.3	77.0	77.1	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4000	58.2	71.1	75.7	75.7	80.2	80.5	81.3	81.4	81.4	81.6	81.7	81.7	81.7	81.7	81.7	81.7
≥ 3500	59.4	72.7	77.4	77.4	82.0	82.2	83.2	83.3	83.3	83.4	83.6	83.6	83.7	83.7	83.7	83.7
≥ 3000	62.3	76.3	82.2	82.2	87.4	87.8	89.2	89.4	89.4	89.6	90.1	90.1	90.4	90.4	90.4	90.4
≥ 2500	63.2	77.3	83.3	83.3	88.9	89.3	90.6	91.2	91.2	91.3	91.8	91.8	92.2	92.2	92.2	92.2
≥ 2000	64.6	79.3	85.3	85.3	91.0	91.4	92.9	93.6	93.6	93.7	94.4	94.4	94.8	94.8	94.8	94.8
≥ 1800	64.6	79.3	85.3	85.3	91.0	91.4	92.9	93.6	93.6	93.7	94.4	94.4	94.9	94.9	94.9	94.9
≥ 1500	65.1	80.1	86.1	86.1	92.2	92.8	94.3	94.9	94.9	95.2	96.0	96.0	96.5	96.5	96.7	96.7
≥ 1200	65.2	80.2	86.2	86.2	92.4	93.0	94.7	95.5	95.5	95.7	96.5	96.5	97.1	97.1	97.2	97.2
≥ 1000	65.6	80.7	86.8	86.8	93.3	94.0	95.6	96.4	96.4	96.7	97.5	97.5	98.0	98.0	98.1	98.1
≥ 900	65.6	80.7	86.8	86.8	93.3	94.0	95.6	96.4	96.4	96.7	97.5	97.5	98.0	98.0	98.1	98.1
≥ 800	65.8	81.9	87.3	87.0	93.6	94.3	96.0	96.9	96.9	97.2	98.0	98.0	98.7	98.7	98.8	98.9
≥ 700	65.8	80.9	87.0	87.0	93.7	94.4	96.3	97.2	97.2	97.6	98.4	98.4	99.1	99.1	99.2	99.3
≥ 600	65.8	80.9	87.0	87.0	93.7	94.4	96.3	97.2	97.2	97.6	98.4	98.4	99.1	99.1	99.2	99.3
≥ 500	65.8	80.9	87.0	87.0	93.7	94.4	96.3	97.2	97.2	97.6	98.4	98.5	99.2	99.2	99.3	99.5
≥ 400	65.8	80.9	87.0	87.0	93.7	94.4	96.3	97.2	97.5	98.0	98.8	98.9	99.6	99.6	99.7	99.9
≥ 300	65.8	80.9	87.0	87.0	93.7	94.4	96.3	97.2	97.5	98.0	98.8	98.9	99.6	99.6	99.7	99.9
≥ 200	65.8	80.9	87.0	87.0	93.7	94.4	96.3	97.2	97.5	98.0	98.8	98.9	99.6	99.6	99.7	99.9
≥ 100	65.8	81.9	87.0	87.0	93.7	94.4	96.3	97.2	97.5	98.0	98.8	98.9	99.6	99.6	99.7	100.0
≥ 0	65.8	81.9	87.0	87.0	93.7	94.4	96.3	97.2	97.5	98.0	98.8	98.9	99.6	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS

748

USAF ETAC

FORM  
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	47.7	54.8	56.2	56.2	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 20000	51.5	62.1	64.5	64.5	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥ 18000	53.4	64.0	66.4	66.4	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 16000	53.8	64.4	66.8	66.8	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 14000	55.0	65.9	68.3	68.3	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 12000	55.6	66.9	69.3	69.3	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 10000	57.3	69.1	72.0	72.0	73.2	73.4	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 9000	57.4	69.2	72.3	72.3	73.5	73.6	73.6	73.6	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 8000	59.2	71.4	74.6	74.6	75.8	75.9	75.9	76.0	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3
≥ 7000	59.8	72.0	75.2	75.2	76.6	76.7	76.7	76.8	77.0	77.0	77.1	77.1	77.1	77.1	77.1	77.1
≥ 6000	60.5	72.7	75.9	75.9	77.2	77.4	77.4	77.5	77.6	77.6	77.8	77.8	77.8	77.8	77.8	77.8
≥ 5000	62.1	74.7	77.9	77.9	79.3	79.4	79.4	79.5	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8
≥ 4500	63.1	75.6	78.8	78.8	80.2	80.3	80.3	80.5	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4000	65.2	78.0	81.4	81.4	82.9	83.0	83.0	83.1	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4
≥ 3500	66.4	79.4	82.9	82.9	84.7	84.9	85.0	85.1	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4
≥ 3000	70.4	84.5	88.0	88.0	90.4	90.5	90.6	90.8	91.0	91.4	91.7	91.7	91.7	91.7	91.7	91.7
≥ 2500	70.5	85.1	88.6	88.6	91.0	91.2	91.3	91.4	91.7	92.2	92.5	92.6	92.6	92.6	92.6	92.6
≥ 2000	71.0	85.7	89.2	89.2	92.1	92.5	92.8	93.0	93.3	94.0	94.2	94.4	94.4	94.4	94.4	94.4
≥ 1800	71.1	85.8	89.3	89.3	92.2	92.6	92.9	93.2	93.4	94.1	94.4	94.5	94.6	94.6	94.6	94.6
≥ 1500	71.9	86.7	90.5	90.5	94.1	94.5	94.8	95.2	95.4	96.3	96.5	96.7	96.8	96.8	96.8	96.8
≥ 1200	71.9	87.0	90.8	90.8	94.6	95.0	95.3	95.7	96.0	96.9	97.2	97.3	97.5	97.5	97.5	97.5
≥ 1000	72.4	87.7	91.6	91.6	95.6	96.0	96.5	97.1	97.3	98.3	98.7	98.8	98.9	98.9	98.9	98.9
≥ 900	72.4	87.7	91.6	91.6	95.6	96.0	96.5	97.1	97.3	98.3	98.7	98.8	98.9	98.9	98.9	98.9
≥ 800	72.4	87.8	92.0	92.0	96.0	96.4	96.9	97.5	97.7	98.7	99.1	99.2	99.3	99.3	99.3	99.3
≥ 700	72.4	87.8	92.0	92.0	96.0	96.4	96.9	97.5	97.7	98.7	99.1	99.2	99.3	99.3	99.3	99.3
≥ 600	72.4	87.8	92.0	92.0	96.0	96.4	96.9	97.5	97.7	98.7	99.1	99.2	99.3	99.3	99.3	99.3
≥ 500	72.4	87.8	92.0	92.0	96.1	96.5	97.1	97.6	97.9	98.8	99.2	99.3	99.5	99.5	99.5	99.5
≥ 400	72.4	87.8	92.0	92.0	96.1	96.5	97.1	97.6	97.9	98.8	99.2	99.3	99.5	99.5	99.6	99.6
≥ 300	72.4	87.8	92.0	92.0	96.1	96.5	97.1	97.6	97.9	98.8	99.5	99.6	99.7	99.7	99.9	99.9
≥ 200	72.4	87.8	92.0	92.0	96.1	96.5	97.1	97.6	97.9	98.8	99.5	99.6	99.7	99.7	99.9	99.9
≥ 100	72.4	87.8	92.0	92.0	96.1	96.5	97.1	97.6	97.9	98.8	99.5	99.6	99.7	99.7	99.9	99.9
≥ 0	72.4	87.8	92.0	92.0	96.1	96.5	97.1	97.6	97.9	98.8	99.5	99.6	99.7	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 747

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥0.01	≥0
NO CEILING	43.4	51.7	55.6	55.6	59.6	59.8	60.4	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 20000	45.7	57.2	61.8	61.8	66.8	67.0	67.6	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 18000	47.9	58.8	63.4	63.4	68.7	68.9	69.5	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 16000	48.4	59.4	63.9	63.9	69.3	69.4	70.1	70.3	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 14000	48.8	59.8	64.3	64.3	69.8	69.9	70.6	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 12000	48.9	60.6	65.4	65.4	71.0	71.1	71.8	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 10000	51.2	63.9	68.9	68.9	74.6	74.7	75.4	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 9000	51.3	64.2	69.1	69.1	75.0	75.1	75.8	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 8000	52.9	65.8	70.7	70.7	76.7	76.9	77.5	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 7000	53.6	66.6	71.9	71.9	78.1	78.2	78.9	79.1	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 6000	53.6	66.6	71.9	71.9	78.1	78.2	78.9	79.1	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 5000	55.3	68.3	73.7	73.7	80.1	80.2	80.9	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4500	55.7	68.9	74.3	74.3	80.7	80.9	81.6	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4000	58.6	72.3	77.8	77.8	84.5	84.6	85.3	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 3500	59.9	74.1	79.5	79.5	86.4	86.5	87.2	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 3000	62.7	77.3	83.2	83.2	90.5	90.6	91.3	91.6	92.0	92.4	92.5	92.5	92.5	92.5	92.5	92.5
≥ 2500	63.1	77.9	83.8	83.8	91.7	91.8	92.5	92.8	93.2	93.6	93.9	93.9	93.9	93.9	93.9	93.9
≥ 2000	63.1	78.3	84.2	84.2	92.8	92.9	93.7	94.1	94.7	95.1	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1800	63.4	78.6	84.5	84.5	93.2	93.3	94.1	94.5	95.1	95.5	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1500	64.4	79.8	85.7	85.7	94.7	94.8	95.6	96.0	96.5	96.9	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1200	64.4	79.9	85.8	85.8	94.9	95.1	95.9	96.3	96.8	97.2	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1000	64.6	80.2	86.1	86.1	95.6	95.7	96.5	96.9	97.5	98.1	98.5	98.5	98.5	98.5	98.5	98.5
≥ 900	64.6	80.2	86.1	86.1	95.7	95.9	96.7	97.1	97.6	98.3	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	64.6	80.2	86.1	86.1	95.7	95.9	96.7	97.1	97.6	98.3	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	64.6	80.2	86.1	86.1	95.9	96.0	96.9	97.5	98.0	98.7	99.1	99.1	99.1	99.1	99.1	99.1
≥ 600	64.6	80.2	86.1	86.1	95.9	96.0	96.9	97.5	98.0	98.7	99.1	99.1	99.1	99.1	99.1	99.1
≥ 500	64.6	80.2	86.1	86.1	96.0	96.3	97.5	98.0	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	64.6	80.2	86.1	86.1	96.0	96.3	97.5	98.0	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	64.6	80.2	86.1	86.1	96.0	96.3	97.5	98.0	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	64.6	80.2	86.1	86.1	96.0	96.3	97.5	98.0	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
≥ 100	64.6	80.2	86.1	86.1	96.0	96.3	97.5	98.0	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	64.6	80.2	86.1	86.1	96.0	96.3	97.5	98.0	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 748

SECBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS U.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	44.3	49.9	55.3	55.3	58.7	59.4	60.7	60.9	60.9	60.9	61.0	61.1	61.1	61.1	61.3	61.7
≥ 20000	47.1	53.4	59.2	59.2	63.8	64.5	65.9	66.0	66.0	66.0	66.1	66.3	66.3	66.3	66.4	66.8
≥ 18000	47.9	54.3	61.2	60.2	64.8	65.5	66.8	66.9	66.9	66.9	67.1	67.2	67.2	67.2	67.3	67.7
≥ 16000	48.3	54.7	60.6	60.6	65.2	65.9	67.2	67.3	67.3	67.3	67.5	67.6	67.6	67.6	67.7	68.2
≥ 14000	48.9	55.2	61.1	61.1	65.7	66.4	67.7	67.9	67.9	67.9	68.0	68.2	68.2	68.2	68.3	68.7
≥ 12000	49.5	56.3	62.2	62.2	67.1	67.7	69.2	69.5	69.5	69.5	69.6	69.8	69.8	69.8	69.9	70.3
≥ 10000	51.1	58.2	64.5	64.5	69.5	70.2	71.7	71.9	71.9	71.9	72.1	72.2	72.2	72.2	72.3	72.9
≥ 9000	51.8	59.2	65.6	65.6	70.7	71.4	72.9	73.1	73.1	73.1	73.3	73.4	73.4	73.4	73.5	74.1
≥ 8000	53.2	60.7	67.5	67.5	72.7	73.4	74.9	75.2	75.2	75.2	75.3	75.4	75.4	75.4	75.6	76.1
≥ 7000	54.1	61.7	68.4	68.4	73.7	74.4	75.8	76.1	76.1	76.1	76.2	76.4	76.4	76.4	76.5	77.1
≥ 6000	54.1	61.7	68.4	68.4	73.7	74.4	75.8	76.1	76.1	76.1	76.2	76.4	76.4	76.4	76.5	77.1
≥ 5000	55.3	63.2	70.2	70.2	75.4	76.1	77.6	77.9	77.9	77.9	78.0	78.1	78.1	78.1	78.3	78.8
≥ 4500	56.1	64.1	71.1	71.1	76.4	77.1	78.5	78.8	78.8	78.8	78.9	79.1	79.1	79.1	79.2	79.8
≥ 4000	59.1	67.5	74.8	74.8	80.4	81.1	82.9	83.1	83.1	83.3	83.4	83.5	83.5	83.5	83.7	84.2
≥ 3500	61.1	69.6	76.9	76.9	82.6	83.3	85.2	85.4	85.4	85.6	85.7	85.8	85.8	85.8	86.0	86.5
≥ 3000	63.3	72.5	80.4	80.4	86.1	86.8	88.8	89.1	89.2	89.3	89.5	89.6	89.6	89.6	89.7	90.3
≥ 2500	64.0	73.4	81.6	81.6	87.7	88.4	90.6	90.8	91.0	91.1	91.2	91.4	91.4	91.4	91.5	92.0
≥ 2000	64.8	75.0	83.5	83.5	89.7	90.7	92.8	93.1	93.3	93.4	93.5	93.7	93.7	93.7	93.8	94.3
≥ 1800	65.5	75.7	84.2	84.2	90.6	91.5	93.7	94.1	94.2	94.5	94.6	94.7	94.7	94.7	94.9	95.4
≥ 1500	66.0	76.5	85.3	85.3	91.8	92.7	94.9	95.3	95.4	95.7	95.8	96.0	96.0	96.0	96.1	96.6
≥ 1200	66.0	76.7	85.6	85.6	92.7	93.7	95.8	96.2	96.4	96.8	96.9	97.0	97.0	97.0	97.2	97.7
≥ 1000	66.3	77.1	86.1	86.0	93.4	94.3	96.6	97.2	97.3	97.7	97.8	98.0	98.0	98.0	98.1	98.7
≥ 900	66.3	77.1	86.0	86.0	93.5	94.5	96.8	97.3	97.4	97.8	98.0	98.1	98.1	98.1	98.2	98.8
≥ 800	66.3	77.3	86.2	86.2	93.8	94.9	97.2	97.7	97.8	98.2	98.5	98.7	98.7	98.7	98.8	99.3
≥ 700	66.4	77.5	86.4	86.4	94.1	95.1	97.4	98.0	98.1	98.5	98.8	98.9	98.9	98.9	99.1	99.6
≥ 600	66.4	77.5	86.4	86.4	94.1	95.1	97.4	98.0	98.1	98.5	98.8	98.9	98.9	98.9	99.1	99.6
≥ 500	66.4	77.5	86.4	86.4	94.1	95.1	97.6	98.1	98.2	98.7	98.9	99.1	99.1	99.1	99.2	99.7
≥ 400	66.4	77.5	86.4	86.4	94.1	95.1	97.6	98.1	98.2	98.7	98.9	99.1	99.1	99.1	99.2	99.7
≥ 300	66.4	77.5	86.4	86.4	94.1	95.1	97.6	98.1	98.2	98.7	98.9	99.2	99.2	99.3	99.5	100.0
≥ 200	66.4	77.5	86.4	86.4	94.1	95.1	97.6	98.1	98.2	98.7	98.9	99.2	99.2	99.3	99.5	100.0
≥ 100	66.4	77.5	86.4	86.4	94.1	95.1	97.6	98.1	98.2	98.7	98.9	99.2	99.2	99.3	99.5	100.0
≥ 0	66.4	77.5	86.4	86.4	94.1	95.1	97.6	98.1	98.2	98.7	98.9	99.2	99.2	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 741

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

4-1721 GSAN AB KO

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-24

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	39.3	45.5	50.0	50.0	54.4	55.3	56.4	57.1	57.4	57.8	57.9	58.0	58.0	58.0	58.1	58.5
≥ 20000	42.3	50.1	55.3	55.3	60.7	61.6	62.9	63.7	64.1	64.5	64.6	64.7	64.7	64.7	64.8	65.2
≥ 18000	42.9	50.9	56.1	56.1	61.5	62.5	63.8	64.6	65.0	65.4	65.5	65.6	65.6	65.6	65.7	66.1
≥ 16000	43.2	51.1	56.4	56.4	61.8	62.8	64.1	64.9	65.3	65.7	65.8	65.9	65.9	65.9	66.0	66.4
≥ 14000	43.6	51.6	56.8	56.8	62.3	63.3	64.6	65.4	65.8	66.3	66.4	66.4	66.5	66.5	66.5	67.0
≥ 12000	43.9	52.3	57.6	57.6	63.3	64.3	65.7	66.5	66.9	67.4	67.5	67.6	67.6	67.7	67.7	68.1
≥ 10000	45.5	54.2	59.8	59.8	65.6	66.6	68.0	68.8	69.2	69.7	69.8	69.9	69.9	69.9	70.0	70.5
≥ 9000	45.7	54.6	60.2	60.2	66.1	67.1	68.5	69.4	69.8	70.3	70.4	70.5	70.5	70.5	70.6	71.0
≥ 8000	46.9	56.1	62.1	62.1	68.2	69.2	70.6	71.5	71.9	72.4	72.6	72.6	72.7	72.7	72.7	73.2
≥ 7000	47.6	56.9	63.0	63.0	69.2	70.2	71.6	72.5	72.9	73.4	73.5	73.6	73.6	73.7	73.7	74.2
≥ 6000	47.9	57.2	63.3	63.3	69.5	70.5	71.9	72.8	73.3	73.8	73.9	74.0	74.0	74.0	74.1	74.5
≥ 5000	49.0	58.6	64.8	64.8	71.1	72.1	73.7	74.6	75.1	75.6	75.7	75.8	75.8	75.8	75.9	76.3
≥ 4500	49.6	59.2	65.4	65.4	71.8	72.8	74.4	75.3	75.8	76.3	76.5	76.5	76.6	76.6	76.6	77.1
≥ 4000	52.3	61.9	68.5	68.5	75.4	76.5	78.1	79.1	79.6	80.2	80.4	80.5	80.5	80.6	80.6	81.1
≥ 3500	53.8	63.9	70.7	70.7	78.0	79.1	80.9	81.9	82.5	83.1	83.3	83.4	83.4	83.4	83.5	84.0
≥ 3000	56.6	67.5	74.8	74.8	82.9	84.1	86.1	87.3	87.9	88.7	89.0	89.1	89.3	89.3	89.3	89.8
≥ 2500	57.5	68.7	76.2	76.2	85.0	86.3	88.3	89.6	90.3	91.1	91.5	91.6	91.8	91.8	91.8	92.3
≥ 2000	58.2	69.9	77.4	77.4	86.6	88.0	90.2	91.6	92.3	93.2	93.6	93.8	94.0	94.0	94.0	94.5
≥ 1800	59.3	71.1	77.6	77.6	86.9	88.3	90.5	91.9	92.6	93.5	93.9	94.1	94.3	94.3	94.4	94.9
≥ 1500	58.9	70.8	78.5	78.5	88.1	89.5	91.7	93.3	94.0	94.9	95.4	95.5	95.7	95.8	95.8	96.3
≥ 1200	59.0	71.0	78.7	78.7	88.7	90.2	92.5	94.2	94.9	95.9	96.4	96.5	96.7	96.8	96.9	97.3
≥ 1000	59.2	71.4	79.1	79.1	89.3	90.8	93.1	94.9	95.7	96.8	97.3	97.5	97.7	97.7	97.8	98.3
≥ 900	59.2	71.4	79.1	79.1	89.4	90.8	93.2	95.0	95.8	96.9	97.4	97.5	97.8	97.8	97.9	98.3
≥ 800	59.3	71.5	79.2	79.2	89.6	91.0	93.5	95.3	96.1	97.2	97.7	97.8	98.1	98.1	98.2	98.7
≥ 700	59.3	71.5	79.3	79.3	89.7	91.1	93.6	95.4	96.2	97.4	97.9	98.1	98.3	98.3	98.4	98.9
≥ 600	59.3	71.5	79.3	79.3	89.7	91.1	93.6	95.5	96.3	97.5	98.0	98.2	98.4	98.4	98.5	99.0
≥ 500	59.3	71.5	79.3	79.3	89.7	91.2	93.7	95.6	96.4	97.6	98.2	98.4	98.6	98.7	98.8	99.2
≥ 400	59.3	71.5	79.3	79.3	89.7	91.2	93.7	95.6	96.5	97.7	98.3	98.5	98.8	98.8	98.9	99.4
≥ 300	59.3	71.5	79.3	79.3	89.7	91.2	93.8	95.6	96.5	97.8	98.4	98.6	98.8	98.9	99.1	99.6
≥ 200	59.3	71.5	79.3	79.3	89.7	91.2	93.8	95.6	96.5	97.8	98.4	98.6	98.8	98.9	99.1	99.7
≥ 100	59.3	71.5	79.3	79.3	89.7	91.2	93.8	95.6	96.5	97.8	98.4	98.6	98.9	98.9	99.1	99.9
≥ 0	59.3	71.5	79.3	79.3	89.7	91.2	93.8	95.6	96.5	97.8	98.4	98.6	98.9	98.9	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 5926

GENERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

471227  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	40.5	49.3	53.7	53.7	59.4	59.5	60.4	61.2	61.4	62.0	62.4	62.4	62.6	62.6	62.6	62.7
≥ 20000	44.1	54.9	60.2	60.2	66.6	66.8	67.8	69.4	69.6	70.2	70.6	70.6	70.6	70.8	70.9	71.1
≥ 18000	45.3	56.6	62.3	62.0	68.4	68.7	69.7	71.3	71.4	72.0	72.4	72.4	72.7	72.7	72.8	72.9
≥ 16000	45.7	57.0	62.4	62.4	68.8	69.1	70.1	71.7	71.8	72.4	72.8	72.8	73.0	73.0	73.2	73.3
≥ 14000	45.9	57.8	63.1	63.1	69.7	69.9	70.9	72.5	72.7	73.3	73.7	73.7	73.9	73.9	74.0	74.2
≥ 12000	45.8	58.6	64.1	64.1	71.2	71.4	72.4	74.0	74.2	74.8	75.2	75.2	75.4	75.4	75.5	75.7
≥ 10000	47.5	60.7	66.5	66.5	73.9	74.2	75.2	77.0	77.1	77.8	78.1	78.1	78.4	78.4	78.5	78.6
≥ 9000	47.6	61.0	66.7	66.7	74.2	74.4	75.4	77.3	77.4	78.0	78.4	78.4	78.6	78.6	78.8	78.9
≥ 8000	49.7	63.4	69.1	69.1	76.6	77.0	78.0	79.9	80.0	80.6	81.0	81.0	81.2	81.2	81.4	81.5
≥ 7000	50.6	64.3	70.1	70.1	77.6	78.0	79.0	80.9	81.0	81.6	82.0	82.0	82.2	82.2	82.4	82.5
≥ 6000	51.6	64.3	70.1	70.1	77.6	78.0	79.0	80.9	81.0	81.6	82.0	82.0	82.2	82.2	82.4	82.5
≥ 5000	51.6	65.6	71.7	71.7	79.3	79.6	80.6	82.5	82.6	83.2	83.6	83.6	83.9	83.9	84.0	84.1
≥ 4500	52.2	66.5	72.5	72.5	80.1	80.5	81.5	83.4	83.5	84.1	84.5	84.5	84.7	84.7	84.8	85.0
≥ 4000	53.7	68.3	74.5	74.5	82.1	82.5	83.5	85.3	85.5	86.1	86.5	86.5	86.7	86.7	86.8	87.0
≥ 3500	55.2	70.9	77.5	77.5	85.2	85.6	86.6	88.4	88.6	89.2	89.6	89.6	89.8	89.8	89.9	90.1
≥ 3000	56.3	72.7	79.6	79.6	88.1	88.4	89.6	91.4	91.6	92.2	92.5	92.5	92.8	92.8	92.9	93.0
≥ 2500	56.5	73.2	80.1	80.1	88.6	88.9	90.2	92.0	92.2	92.8	93.2	93.2	93.4	93.4	93.5	93.7
≥ 2000	57.0	73.8	80.7	80.7	89.4	89.8	91.1	92.9	93.2	93.8	94.2	94.2	94.4	94.4	94.5	94.7
≥ 1800	57.0	73.8	80.7	80.7	89.4	89.8	91.1	92.9	93.2	93.8	94.2	94.2	94.4	94.4	94.5	94.8
≥ 1500	57.6	74.5	81.6	81.6	90.4	90.8	92.0	94.2	94.4	95.0	95.4	95.4	95.7	95.7	95.8	95.9
≥ 1200	57.6	75.2	82.2	82.2	91.2	91.6	92.8	94.9	95.2	95.8	96.1	96.1	96.4	96.4	96.5	96.6
≥ 1000	57.9	75.7	82.9	82.9	91.9	92.3	93.5	95.7	95.9	96.5	96.9	96.9	97.1	97.1	97.3	97.4
≥ 900	57.9	75.7	82.9	82.9	92.2	92.5	93.8	95.9	96.1	96.8	97.1	97.1	97.4	97.4	97.5	97.6
≥ 800	58.4	76.1	83.4	83.4	92.7	93.0	94.3	96.4	96.6	97.3	97.6	97.6	97.9	97.9	98.0	98.1
≥ 700	58.4	76.1	83.4	83.4	92.7	93.0	94.4	96.5	96.8	97.4	97.9	97.9	98.1	98.1	98.3	98.4
≥ 600	58.4	76.1	83.4	83.4	93.0	93.7	95.2	97.3	97.5	98.1	98.6	98.6	98.9	98.9	99.0	99.1
≥ 500	58.4	76.1	83.4	83.4	93.2	93.8	95.4	97.5	97.8	98.4	98.9	98.9	99.1	99.1	99.3	99.4
≥ 400	58.4	76.1	83.4	83.4	93.2	93.8	95.4	97.5	97.8	98.4	98.9	98.9	99.1	99.1	99.3	99.6
≥ 300	58.4	76.1	83.4	83.4	93.2	93.8	95.5	97.6	97.9	98.5	99.0	99.0	99.3	99.3	99.4	99.9
≥ 200	58.4	76.1	83.4	83.4	93.2	93.8	95.5	97.6	97.9	98.5	99.0	99.0	99.3	99.3	99.4	99.9
≥ 100	58.4	76.1	83.4	83.4	93.2	93.8	95.5	97.6	97.9	98.5	99.0	99.0	99.3	99.3	99.5	100.0
≥ 0	58.4	76.1	83.4	83.4	93.2	93.8	95.5	97.6	97.9	98.5	99.0	99.0	99.3	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 805

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4/122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS, LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	33.1	41.4	46.5	46.5	53.6	54.5	56.6	58.2	58.3	59.1	59.2	59.4	59.7	59.7	59.9	60.3
≥ 20000	35.9	45.4	52.9	52.9	60.7	61.5	63.9	66.0	66.1	66.9	67.5	67.7	68.0	68.0	68.2	68.6
≥ 18000	36.7	46.0	54.1	54.1	62.0	62.9	65.3	67.4	67.5	68.2	68.9	69.1	69.4	69.4	69.6	70.0
≥ 16000	36.0	46.4	54.5	54.5	62.4	63.3	65.6	67.7	67.9	68.6	69.2	69.5	69.7	69.7	70.0	70.3
≥ 14000	36.0	46.7	54.8	54.8	62.8	63.6	66.0	68.1	68.2	69.0	69.6	69.9	70.1	70.1	70.3	70.7
≥ 12000	36.1	47.1	55.5	55.5	63.4	64.3	66.7	68.9	69.0	69.7	70.3	70.6	70.8	70.8	71.1	71.5
≥ 10000	37.3	48.9	57.8	57.8	66.4	67.2	69.7	72.0	72.1	72.8	73.4	73.7	73.9	73.9	74.2	74.6
≥ 9000	37.6	49.1	58.2	58.2	67.0	67.9	70.3	72.6	72.7	73.4	74.1	74.3	74.6	74.6	74.8	75.2
≥ 8000	39.5	51.2	60.4	60.4	69.4	70.3	72.8	75.3	75.4	76.2	76.8	77.0	77.3	77.3	77.5	77.9
≥ 7000	39.6	51.6	60.9	60.9	70.0	71.0	73.4	75.9	76.1	76.8	77.4	77.7	77.9	77.9	78.2	78.5
≥ 6000	39.6	51.9	61.2	61.2	70.2	71.2	73.7	76.2	76.3	77.0	77.7	77.9	78.2	78.2	78.4	78.8
≥ 5000	40.2	52.6	62.2	62.2	71.2	72.2	74.7	77.2	77.3	78.0	78.7	78.9	79.2	79.2	79.4	79.8
≥ 4500	40.6	53.3	63.2	63.2	72.2	73.2	75.7	78.2	78.3	79.0	79.7	79.9	80.1	80.1	80.4	80.8
≥ 4000	42.9	55.8	65.9	65.9	75.4	76.4	78.9	81.5	81.6	82.4	83.0	83.3	83.5	83.5	83.7	84.1
≥ 3500	45.2	58.2	68.2	68.2	77.9	78.9	81.4	84.0	84.1	84.9	85.5	85.7	86.0	86.0	86.2	86.6
≥ 3000	46.7	60.3	71.3	71.3	81.4	82.4	84.9	87.5	87.6	88.3	89.0	89.2	89.6	89.6	89.8	90.2
≥ 2500	46.8	60.9	72.0	72.0	82.0	83.0	85.5	88.2	88.3	89.1	89.7	90.0	90.3	90.3	90.6	90.9
≥ 2000	47.0	61.4	72.5	72.5	82.6	83.6	86.1	89.0	89.2	90.0	90.6	90.8	91.2	91.2	91.4	91.8
≥ 1800	47.0	61.4	72.5	72.5	82.6	83.6	86.4	89.2	89.5	90.2	90.8	91.1	91.4	91.4	91.7	92.1
≥ 1500	47.6	62.0	73.2	73.2	84.2	85.4	88.2	91.1	91.3	92.1	92.8	93.1	93.4	93.4	93.7	94.0
≥ 1200	48.3	62.9	74.2	74.2	85.5	86.6	89.5	92.3	92.6	93.3	94.2	94.4	94.8	94.8	95.0	95.4
≥ 1000	48.5	63.2	74.4	74.4	85.9	87.0	89.8	92.7	92.9	93.7	94.5	94.8	95.2	95.2	95.4	95.8
≥ 900	48.9	63.5	74.8	74.8	86.4	87.5	90.3	93.2	93.4	94.2	95.0	95.3	95.7	95.7	95.9	96.3
≥ 800	48.9	63.5	74.9	74.9	86.6	87.7	90.6	93.4	93.7	94.5	95.4	95.7	96.0	96.0	96.3	96.7
≥ 700	48.9	63.8	75.4	75.4	87.1	88.2	91.1	93.9	94.2	95.0	95.9	96.2	96.5	96.5	96.8	97.1
≥ 600	48.9	63.8	75.6	75.6	87.3	88.7	91.6	94.4	94.7	95.5	96.5	96.8	97.1	97.1	97.4	97.8
≥ 500	48.9	63.8	75.7	75.7	87.5	88.8	91.7	94.5	94.8	95.7	96.7	97.0	97.4	97.4	97.6	98.0
≥ 400	48.9	63.8	75.7	75.7	87.5	88.8	91.7	94.5	94.8	95.7	96.7	97.0	97.4	97.4	97.6	98.0
≥ 300	48.9	63.8	75.7	75.7	87.5	88.8	91.7	94.5	94.8	95.7	96.8	97.1	97.5	97.5	97.8	98.6
≥ 200	48.9	63.8	75.7	75.7	87.5	88.8	91.7	94.5	94.8	95.7	96.8	97.1	97.5	97.5	97.8	98.9
≥ 100	48.9	63.8	75.7	75.7	87.5	88.8	91.7	94.5	94.8	95.7	96.8	97.1	97.6	97.6	97.9	100.0
≥ 0	48.9	63.8	75.7	75.7	87.5	88.8	91.7	94.5	94.8	95.7	96.8	97.1	97.6	97.6	97.9	100.0

TOTAL NUMBER OF OBSERVATIONS

806



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

4/172  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

6600-0000  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING	18.7	24.3	32.2	32.2	40.1	41.8	46.2	49.0	50.1	51.8	52.4	52.7	53.3	53.3	53.5	54.1
≥ 20000	20.7	27.9	37.1	37.1	47.5	49.4	54.7	57.7	58.9	60.7	61.4	61.8	62.4	62.4	62.6	63.3
≥ 18000	21.2	28.7	38.6	38.6	49.8	51.9	57.3	60.3	61.5	63.4	64.2	64.6	65.2	65.2	65.5	66.1
≥ 16000	21.2	29.0	38.8	38.8	50.1	52.2	57.6	60.5	61.8	63.6	64.5	64.9	65.5	65.5	65.7	66.3
≥ 14000	21.3	29.5	39.3	39.3	50.8	52.9	58.3	61.3	62.5	64.4	65.2	65.6	66.2	66.2	66.5	67.1
≥ 12000	21.7	30.5	40.4	40.4	52.8	54.9	60.3	63.3	64.6	66.5	67.3	67.7	68.3	68.3	68.6	69.2
IVV 10000	22.4	31.3	42.0	42.0	55.1	57.2	63.0	66.1	67.7	69.5	70.4	70.8	71.4	71.4	71.6	72.3
IVV 9000	22.8	31.8	42.7	42.7	55.9	58.0	63.7	67.0	68.6	70.4	71.3	71.6	72.3	72.3	72.5	73.1
IVV 8000	23.6	32.8	44.1	44.1	57.7	59.9	66.0	69.5	71.1	73.0	73.9	74.2	74.8	74.8	75.1	75.8
IVV 7000	24.3	33.7	45.1	45.1	58.7	61.0	67.1	70.7	72.3	74.1	75.0	75.3	76.0	76.0	76.2	76.9
IVV 6000	24.3	33.7	45.1	45.1	58.8	61.2	67.2	70.8	72.4	74.2	75.2	75.6	76.2	76.2	76.4	77.2
IVV 5000	24.4	34.0	45.5	45.5	59.6	61.9	68.1	71.8	73.4	75.2	76.2	76.7	77.3	77.3	77.6	78.3
IVV 4500	24.7	34.3	45.7	45.7	59.9	62.3	68.6	72.4	74.0	75.8	76.8	77.4	78.1	78.1	78.3	79.0
IVV 4000	26.1	36.1	48.1	48.1	62.6	65.1	71.6	76.0	77.6	79.4	80.4	81.0	81.6	81.6	81.9	82.6
IVV 3500	27.4	37.5	49.6	49.6	64.5	67.2	73.9	78.2	79.8	81.8	82.7	83.4	84.0	84.0	84.2	85.0
IVV 3000	28.4	38.7	51.4	51.4	67.8	70.5	77.4	81.8	83.4	85.3	86.3	86.9	87.5	87.5	87.8	88.5
IVV 2500	28.6	39.0	51.8	51.8	68.4	71.1	78.1	82.6	84.2	86.2	87.2	87.9	88.5	88.5	88.8	89.5
IVV 2000	29.1	39.5	52.3	52.3	69.1	71.8	78.8	83.4	85.0	86.9	87.9	88.7	89.3	89.3	89.5	90.3
IVV 1800	29.1	39.5	52.4	52.4	69.3	72.0	79.2	83.7	85.3	87.3	88.3	89.0	89.6	89.6	89.9	90.6
IVV 1500	29.5	40.0	53.1	53.1	71.7	73.4	80.8	85.5	87.1	89.0	90.0	90.8	91.4	91.4	91.6	92.4
IVV 1200	29.7	40.3	53.5	53.5	71.0	74.1	81.5	86.6	88.2	90.1	91.1	91.9	92.5	92.5	92.7	93.5
IVV 1000	30.1	40.8	54.0	54.0	71.9	75.1	82.5	87.8	89.4	91.4	92.4	93.1	93.7	93.7	94.0	94.7
IVV 900	30.1	40.8	54.0	54.0	71.9	75.1	82.5	87.8	89.4	91.4	92.4	93.1	93.7	93.7	94.0	94.7
IVV 800	30.1	40.9	54.1	54.1	72.0	75.2	82.6	88.2	89.8	91.9	93.0	93.7	94.3	94.3	94.6	95.3
IVV 700	30.1	40.9	54.3	54.3	72.3	75.5	82.9	88.4	90.0	92.1	93.2	94.0	94.6	94.6	94.8	95.6
IVV 600	30.2	41.1	54.4	54.4	72.5	75.7	83.1	88.7	90.3	92.5	93.7	94.5	95.1	95.1	95.4	96.2
IVV 500	30.2	41.1	54.4	54.4	72.6	75.8	83.4	89.0	90.6	93.2	94.6	95.3	96.1	96.1	96.4	97.2
IVV 400	30.2	41.1	54.4	54.4	72.7	76.0	83.5	89.1	90.8	93.3	94.7	95.4	96.2	96.2	96.5	97.3
IVV 300	30.2	41.1	54.4	54.4	72.7	76.1	83.6	89.4	91.0	93.6	94.9	95.7	96.5	96.5	96.9	98.0
IVV 200	30.2	41.1	54.4	54.4	72.7	76.1	83.6	89.4	91.0	93.6	94.9	95.8	96.8	96.8	97.2	98.8
IVV 100	30.2	41.1	54.4	54.4	72.7	76.1	83.6	89.4	91.0	93.6	94.9	95.8	96.8	96.8	97.2	100.0
IVV 0	30.2	41.1	54.4	54.4	72.7	76.1	83.6	89.4	91.0	93.6	94.9	95.8	96.8	96.8	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS 811

USAF ETAC FORM 14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

4597

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

471221  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥3/16	≥¼
NO CEILING	26.4	34.8	40.5	40.5	47.9	49.2	52.3	54.0	54.2	55.2	55.7	55.7	56.2	56.3	56.3	56.3
≥ 20000	29.8	40.5	46.5	46.5	55.7	57.3	60.9	62.7	63.2	64.2	64.7	64.7	65.3	65.4	65.4	65.4
≥ 18000	30.3	41.7	47.9	47.9	57.4	59.0	62.6	64.5	65.0	66.0	66.5	66.5	67.1	67.2	67.2	67.2
≥ 16000	30.4	42.1	48.2	48.2	57.8	59.4	62.9	64.9	65.4	66.4	66.9	66.9	67.5	67.6	67.6	67.6
≥ 14000	30.6	42.3	48.6	48.6	58.7	60.2	63.8	65.8	66.3	67.2	67.7	67.7	68.3	68.5	68.5	68.5
≥ 12000	30.8	42.9	49.6	49.6	60.1	61.8	65.4	67.4	68.0	69.0	69.4	69.4	70.1	70.2	70.2	70.2
≥ 10000	32.1	44.5	51.5	51.5	63.3	65.5	69.3	71.7	72.4	73.4	73.9	73.9	74.5	74.6	74.6	74.6
≥ 9000	32.3	44.9	51.9	51.9	63.8	66.0	69.8	72.3	73.0	74.0	74.5	74.5	75.1	75.2	75.2	75.2
≥ 8000	33.4	46.0	53.0	53.0	65.3	67.5	71.7	74.6	75.3	76.4	77.1	77.1	77.7	77.8	77.8	77.8
≥ 7000	34.5	47.1	54.1	54.1	66.9	69.1	73.7	76.7	77.4	78.5	79.3	79.3	79.9	80.0	80.0	80.0
≥ 6000	34.7	47.4	54.4	54.4	67.1	69.3	74.0	76.9	77.7	78.9	80.0	80.0	80.6	80.7	80.7	80.9
≥ 5000	35.1	47.9	54.8	54.8	67.9	70.1	74.7	77.7	78.4	79.6	80.7	80.7	81.3	81.5	81.5	81.6
≥ 4500	35.1	48.0	55.0	55.0	68.0	70.2	74.8	77.8	78.5	79.9	81.0	81.0	81.6	81.7	81.7	81.8
≥ 4000	36.8	49.9	57.2	57.2	70.9	73.3	78.2	81.1	81.8	83.2	84.3	84.3	84.9	85.0	85.0	85.2
≥ 3500	37.2	50.3	57.8	57.8	71.8	74.1	79.3	82.3	83.2	84.5	85.6	85.6	86.3	86.4	86.4	86.5
≥ 3000	39.4	52.8	60.4	60.4	74.5	76.9	82.3	85.5	86.4	87.7	88.8	88.8	89.4	89.6	89.6	89.8
≥ 2500	39.6	53.0	60.9	60.9	75.2	77.7	83.1	86.3	87.1	88.5	89.6	89.6	90.3	90.4	90.4	90.7
≥ 2000	40.5	54.0	62.2	62.2	76.7	79.4	84.8	88.1	89.0	90.3	91.4	91.4	92.1	92.3	92.3	92.5
≥ 1800	40.6	54.2	62.5	62.5	77.1	79.8	85.3	88.6	89.4	90.8	91.9	91.9	92.6	92.6	92.8	93.0
≥ 1500	41.0	54.7	63.3	63.3	78.0	80.7	86.3	89.6	90.4	91.9	93.0	93.0	93.7	93.9	93.9	94.1
≥ 1200	41.7	55.6	64.2	64.2	79.4	82.1	87.6	91.0	91.9	93.4	94.5	94.5	95.2	95.3	95.3	95.6
≥ 1000	41.7	55.6	64.2	64.2	79.6	82.3	87.9	91.3	92.1	93.7	94.8	95.0	95.7	95.8	95.8	96.2
≥ 900	41.7	55.6	64.2	64.2	79.9	82.6	88.1	91.5	92.4	94.0	95.1	95.2	96.0	96.1	96.1	96.4
≥ 800	41.7	55.6	64.2	64.2	79.9	82.6	88.1	91.5	92.4	94.0	95.1	95.2	96.0	96.1	96.1	96.4
≥ 700	41.7	55.7	64.3	64.3	80.1	82.9	88.5	91.9	92.8	94.4	95.5	95.6	96.3	96.4	96.4	96.8
≥ 600	41.7	55.7	64.3	64.3	80.1	82.9	88.7	92.3	93.1	94.7	96.0	96.2	96.9	97.1	97.1	97.4
≥ 500	41.7	55.7	64.3	64.3	80.2	83.1	88.8	92.5	93.4	95.2	96.4	96.7	97.3	97.7	97.7	98.0
≥ 400	41.7	55.7	64.3	64.3	80.4	83.3	89.1	92.9	93.9	95.7	96.9	97.2	98.2	98.4	98.5	98.9
≥ 300	41.7	55.7	64.3	64.3	80.4	83.3	89.1	93.0	94.0	95.8	97.1	97.3	98.3	98.5	98.7	99.1
≥ 200	41.7	55.7	64.3	64.3	80.4	83.3	89.1	93.0	94.0	95.8	97.1	97.4	98.4	98.8	98.9	99.8
≥ 100	41.8	55.8	64.4	64.4	80.5	83.4	89.2	93.1	94.1	96.0	97.2	97.5	98.5	98.9	99.0	100.0
≥ 0	41.8	55.8	64.4	64.4	80.5	83.4	89.2	93.1	94.1	96.0	97.2	97.5	98.5	98.9	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 815

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5-16	≥¼	≥0
NO CEILING	43.6	52.5	53.6	53.6	53.8	53.8	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 20000	51.2	63.1	64.4	64.4	64.8	64.8	65.1	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 18000	52.2	65.1	66.6	66.6	67.0	67.0	67.3	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 16000	52.2	65.6	67.1	67.1	67.4	67.4	67.8	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 14000	52.9	66.3	67.8	67.8	68.2	68.2	68.5	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 12000	53.8	67.9	69.5	69.5	69.9	69.9	70.2	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 10000	56.1	70.6	72.2	72.2	72.7	72.8	73.1	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 9000	56.5	71.0	72.5	72.5	73.0	73.1	73.5	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 8000	58.6	73.6	75.6	75.6	76.2	76.3	76.7	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 7000	59.2	74.2	76.4	76.4	77.5	77.6	78.0	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 6000	59.7	74.7	77.3	77.3	78.5	78.6	79.0	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 5000	60.8	75.9	78.6	78.6	79.8	80.0	80.3	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 4500	61.5	76.7	79.5	79.5	80.9	81.0	81.4	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4000	62.8	78.6	81.5	81.5	83.2	83.4	84.0	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 3500	64.3	80.3	83.4	83.4	85.2	85.3	85.9	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 3000	67.7	84.3	87.5	87.5	89.6	89.7	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500	68.8	85.4	88.8	88.8	90.9	91.0	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2000	70.8	87.7	91.3	91.3	93.7	93.8	94.4	95.1	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1800	70.8	87.7	91.3	91.3	93.7	93.8	94.4	95.1	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1500	71.2	88.5	92.1	92.1	94.5	94.7	95.3	96.2	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1200	71.8	89.2	92.8	92.8	95.4	95.5	96.1	97.1	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1000	71.9	89.4	93.1	93.1	95.6	95.7	96.4	97.3	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 900	72.1	89.6	93.2	93.2	95.7	95.9	96.5	97.4	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 800	72.1	89.6	93.2	93.2	95.7	95.9	96.5	97.4	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 700	72.2	89.7	93.3	93.3	96.0	96.1	96.7	97.7	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 600	72.3	90.0	93.8	93.8	96.6	96.8	97.4	98.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 500	72.3	90.0	93.8	93.8	96.6	96.8	97.6	98.7	98.9	99.1	99.1	99.1	99.1	99.3	99.3	99.3
≥ 400	72.3	90.0	93.8	93.8	96.6	96.8	97.6	98.7	98.9	99.1	99.1	99.1	99.1	99.3	99.3	99.4
≥ 300	72.3	90.0	93.8	93.8	96.6	96.8	97.6	98.7	99.1	99.4	99.5	99.5	99.5	99.8	99.8	99.9
≥ 200	72.3	90.0	93.8	93.8	96.6	96.8	97.6	98.7	99.1	99.4	99.5	99.5	99.5	99.9	99.9	100.0
≥ 100	72.3	90.0	93.8	93.8	96.6	96.8	97.6	98.7	99.1	99.4	99.5	99.5	99.5	99.9	99.9	100.0
≥ 0	72.3	90.0	93.8	93.8	96.6	96.8	97.6	98.7	99.1	99.4	99.5	99.5	99.5	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 823

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

471220  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥1/8	≥0
NO CEILING	45.9	54.4	55.2	55.2	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 20000	55.4	67.0	67.8	67.8	68.6	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IV 18000	55.3	68.0	68.7	68.7	69.6	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 16000	56.0	68.5	69.2	69.2	70.1	70.1	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
IV 14000	56.4	69.1	69.8	69.8	70.7	70.7	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
IV 12000	57.2	70.1	70.9	70.9	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 10000	60.6	73.9	74.8	74.8	75.9	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 9000	61.0	74.3	75.2	75.2	76.2	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV 8000	63.2	77.1	78.1	78.1	79.3	79.3	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
IV 7000	63.6	77.9	79.2	79.2	80.4	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IV 6000	64.4	78.8	80.1	80.1	81.3	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
IV 5000	65.1	79.6	81.0	81.0	82.2	82.2	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
IV 4500	65.7	80.4	82.2	82.2	83.5	83.5	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
IV 4000	67.6	82.3	84.1	84.1	85.6	85.7	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
IV 3500	69.0	84.1	86.2	86.2	87.6	87.8	88.1	88.1	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 3000	71.9	88.6	90.8	90.8	92.5	92.7	93.2	93.2	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5
IV 2500	72.7	89.6	91.9	91.9	93.9	94.2	94.7	94.7	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9
IV 2000	73.3	90.3	92.7	92.7	95.3	95.5	96.0	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 1800	73.5	90.4	92.8	92.8	95.4	95.6	96.1	96.1	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1500	74.2	91.5	94.1	94.1	96.7	97.1	97.6	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 1200	74.3	91.6	94.3	94.3	97.0	97.3	97.8	97.8	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 1000	74.8	92.1	94.9	94.9	97.8	98.2	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 900	74.9	92.2	95.0	95.0	97.9	98.3	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 800	74.9	92.2	95.0	95.0	97.9	98.3	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 700	74.9	92.2	95.0	95.0	97.9	98.3	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 600	74.9	92.2	95.0	95.0	97.9	98.3	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 500	74.4	92.2	95.2	95.2	98.2	98.5	99.3	99.3	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IV 400	74.9	92.2	95.2	95.2	98.2	98.7	99.4	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 300	74.9	92.2	95.2	95.2	98.2	98.7	99.4	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 200	74.9	92.2	95.2	95.2	98.2	98.7	99.4	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 100	74.9	92.2	95.2	95.2	98.2	98.7	99.4	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV 0	74.9	92.2	95.2	95.2	98.2	98.7	99.4	99.5	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 825

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAR

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥3/16	≥¼	≥0
NO CEILING	48.0	57.3	59.8	59.8	61.3	61.3	61.5	61.5	61.5	61.5	61.6	61.6	61.6	61.6	61.6	61.6
≥ 20000	54.7	67.1	70.3	70.3	71.9	71.9	72.0	72.0	72.0	72.0	72.1	72.1	72.1	72.1	72.1	72.1
IV 18000	55.7	68.8	72.0	72.0	73.7	73.7	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0
IV 16000	55.7	68.8	72.0	72.0	73.7	73.7	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0
IV 14000	55.2	69.7	73.1	73.1	75.0	75.0	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2
IV 12000	56.2	70.7	74.1	74.1	76.1	76.1	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3
IV 10000	59.0	73.6	77.4	77.4	79.9	79.9	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1	80.1	80.1
IV 9000	59.3	73.9	77.7	77.7	80.1	80.1	80.2	80.2	80.2	80.2	80.4	80.4	80.4	80.4	80.4	80.4
IV 8000	61.0	76.1	79.9	79.9	82.3	82.3	82.5	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6
IV 7000	61.5	76.8	80.6	80.6	83.2	83.3	83.4	83.4	83.4	83.4	83.6	83.6	83.6	83.6	83.6	83.6
IV 6000	61.5	76.8	80.6	80.6	83.2	83.3	83.4	83.4	83.4	83.4	83.6	83.6	83.6	83.6	83.6	83.6
IV 5000	61.8	77.5	81.6	81.6	84.3	84.4	84.5	84.5	84.5	84.5	84.7	84.7	84.7	84.7	84.7	84.7
IV 4500	62.5	78.2	82.2	82.2	85.2	85.4	85.8	85.8	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9
IV 4000	63.7	79.9	84.2	84.2	87.2	87.5	87.9	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0
IV 3500	65.2	81.8	86.3	86.3	89.4	89.7	90.1	90.1	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2
IV 3000	67.0	84.8	89.9	89.9	93.3	93.9	94.4	94.4	94.4	94.5	94.6	94.6	94.6	94.7	94.7	94.7
IV 2500	67.5	85.5	90.7	90.7	94.1	94.7	95.2	95.2	95.2	95.3	95.5	95.5	95.5	95.6	95.6	95.6
IV 2000	68.0	86.3	91.5	91.5	95.2	95.8	96.3	96.4	96.4	96.6	96.7	96.7	96.7	96.8	96.8	96.8
IV 1800	68.0	86.4	91.7	91.7	95.5	96.1	96.6	96.7	96.7	96.8	96.9	96.9	96.9	97.1	97.1	97.1
IV 1500	68.7	87.1	92.4	92.4	96.3	96.9	97.4	97.5	97.5	97.7	97.8	97.8	97.8	97.9	97.9	97.9
IV 1200	68.7	87.2	92.5	92.5	96.4	97.1	97.5	97.7	97.7	97.8	97.9	97.9	97.9	98.0	98.0	98.0
IV 1000	69.1	87.6	93.1	93.1	97.2	97.8	98.3	98.4	98.4	98.5	98.7	98.7	98.7	98.8	98.8	98.8
IV 900	69.1	87.6	93.1	93.1	97.2	97.8	98.3	98.4	98.4	98.5	98.7	98.7	98.7	98.8	98.8	98.8
IV 800	69.1	87.6	93.3	93.3	97.4	98.0	98.5	98.7	98.7	98.8	98.9	98.9	98.9	99.0	99.0	99.0
IV 700	69.1	87.6	93.3	93.3	97.7	98.3	98.8	98.9	98.9	99.0	99.3	99.3	99.3	99.4	99.4	99.4
IV 600	69.1	87.6	93.3	93.3	97.7	98.3	98.8	98.9	98.9	99.0	99.3	99.3	99.3	99.4	99.4	99.4
IV 500	69.1	87.6	93.3	93.3	97.7	98.3	98.8	98.9	98.9	99.0	99.3	99.3	99.3	99.4	99.4	99.4
IV 400	69.1	87.6	93.5	93.5	97.9	98.5	99.1	99.3	99.4	99.5	99.8	99.8	99.8	99.9	99.9	99.9
IV 300	69.1	87.6	93.5	93.5	97.9	98.5	99.1	99.3	99.4	99.6	99.9	99.9	99.9	100.0	100.0	100.0
IV 200	69.1	87.6	93.5	93.5	97.9	98.5	99.1	99.3	99.4	99.6	99.9	99.9	99.9	100.0	100.0	100.0
IV 100	69.1	87.6	93.5	93.5	97.9	98.5	99.1	99.3	99.4	99.6	99.9	99.9	99.9	100.0	100.0	100.0
IV 0	69.1	87.6	93.5	93.5	97.9	98.5	99.1	99.3	99.4	99.6	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

815

USAF ETAC

FORM  
AF 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2 1/2	≥2	≥1 1/2	≥1 1/4	≥1	≥3/4	≥1/2	≥1/4	≥1/8	≥1/16	≥0
NO CEILING	49.9	59.1	61.8	61.8	65.1	65.2	66.0	66.6	66.7	67.2	67.3	67.3	67.4	67.4	67.4	67.4
≥ 20000	54.4	65.8	68.8	68.8	72.7	72.9	73.6	74.2	74.3	74.8	74.9	74.9	75.1	75.1	75.1	75.1
IV 18000	55.7	67.7	70.8	70.8	74.7	74.8	75.6	76.2	76.3	76.8	76.9	76.9	77.0	77.0	77.0	77.0
IV 16000	55.7	67.7	70.8	70.8	74.7	74.8	75.6	76.2	76.3	76.8	76.9	76.9	77.0	77.0	77.0	77.0
IV 14000	55.7	67.9	71.4	71.4	75.6	75.7	76.4	77.0	77.1	77.6	77.8	77.8	77.9	77.9	77.9	77.9
IV 12000	56.1	68.6	72.1	72.1	76.5	76.7	77.4	78.0	78.1	78.6	78.7	78.7	78.9	78.9	78.9	78.9
IV 10000	58.8	71.5	75.2	75.2	80.0	80.2	81.0	81.6	81.7	82.2	82.3	82.3	82.4	82.4	82.4	82.4
IV 9000	59.2	72.1	75.8	75.8	80.6	80.8	81.6	82.2	82.3	82.8	82.9	82.9	83.0	83.0	83.0	83.0
IV 8000	60.8	74.0	77.6	77.6	82.6	82.8	83.5	84.2	84.3	84.8	84.9	84.9	85.0	85.0	85.0	85.0
IV 7000	61.4	74.7	78.4	78.4	83.3	83.8	84.5	85.1	85.3	85.7	85.9	85.9	86.0	86.0	86.0	86.0
IV 6000	61.4	74.7	78.4	78.4	83.3	83.8	84.5	85.1	85.3	85.7	85.9	85.9	86.0	86.0	86.0	86.0
IV 5000	62.7	76.3	80.0	80.0	85.1	85.6	86.4	87.0	87.1	87.6	87.7	87.7	87.8	87.8	87.8	87.8
IV 4500	63.4	77.3	81.0	81.0	86.2	86.7	87.5	88.1	88.2	88.7	88.8	88.8	88.9	88.9	88.9	88.9
IV 4000	64.1	78.3	81.9	81.9	87.2	87.7	88.5	89.1	89.2	89.7	89.8	89.8	89.9	89.9	89.9	89.9
IV 3500	65.5	80.1	83.9	83.9	89.7	90.2	90.9	91.5	91.6	92.1	92.3	92.3	92.4	92.4	92.4	92.4
IV 3000	66.7	81.9	86.1	86.1	92.1	92.6	93.5	94.1	94.2	94.7	94.8	94.8	95.0	95.0	95.0	95.0
IV 2500	67.1	82.9	87.3	87.3	93.5	94.0	94.8	95.5	95.6	96.1	96.2	96.2	96.3	96.3	96.3	96.3
IV 2000	67.4	83.3	88.0	88.0	94.2	94.7	95.6	96.2	96.3	96.8	96.9	96.9	97.1	97.1	97.1	97.1
IV 1800	67.4	83.4	88.1	88.1	94.3	94.8	95.7	96.3	96.4	96.9	97.1	97.1	97.2	97.2	97.2	97.2
IV 1500	67.9	84.2	89.1	89.1	95.6	96.1	96.9	97.5	97.7	98.2	98.3	98.3	98.4	98.4	98.4	98.4
IV 1200	67.9	84.2	89.1	89.1	95.7	96.2	97.1	97.7	97.8	98.3	98.4	98.4	98.5	98.5	98.5	98.5
IV 1000	68.4	84.8	89.7	89.7	96.3	96.8	97.7	98.3	98.4	98.9	99.0	99.0	99.1	99.1	99.1	99.1
IV 900	68.6	84.9	89.8	89.8	96.4	96.9	97.8	98.4	98.5	99.0	99.1	99.1	99.3	99.3	99.3	99.3
IV 800	68.7	85.0	89.9	89.9	96.6	97.1	97.9	98.5	98.6	99.1	99.4	99.4	99.5	99.5	99.5	99.5
IV 700	68.7	85.0	89.9	89.9	96.6	97.1	97.9	98.5	98.6	99.1	99.4	99.4	99.5	99.5	99.5	99.5
IV 600	68.7	85.0	89.9	89.9	96.7	97.2	98.0	98.6	98.8	99.3	99.5	99.5	99.6	99.6	99.6	99.6
IV 500	68.7	85.0	89.9	89.9	96.8	97.3	98.2	98.8	98.9	99.4	99.6	99.6	99.9	99.9	99.9	99.9
IV 400	68.7	85.0	89.9	89.9	96.8	97.4	98.3	98.9	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0
IV 300	68.7	85.0	89.9	89.9	96.8	97.4	98.3	98.9	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0
IV 200	68.7	85.0	89.9	89.9	96.8	97.4	98.3	98.9	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0
IV 100	68.7	85.0	89.9	89.9	96.8	97.4	98.3	98.9	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0
IV 0	68.7	85.0	89.9	89.9	96.8	97.4	98.3	98.9	99.0	99.5	99.8	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 814

GLOBAL CLIMATOLOGY BRANCH  
JAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

471221 OSAN AB KO

73-81

MAR

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS U.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	38.3	46.6	50.4	50.4	54.6	55.2	56.6	57.6	57.8	58.4	58.6	58.6	58.9	58.9	58.9	59.1
≥20000	43.2	54.0	58.5	58.5	63.6	64.2	65.9	67.1	67.3	67.9	68.2	68.3	68.5	68.5	68.6	68.7
≥18000	43.9	55.4	60.1	60.1	65.4	66.0	67.7	68.9	69.1	69.7	70.0	70.1	70.4	70.4	70.4	70.6
≥16000	44.0	55.7	60.4	60.4	65.6	66.3	68.0	69.2	69.4	70.0	70.3	70.4	70.6	70.7	70.7	70.9
≥14000	44.2	56.2	61.0	61.0	66.4	67.0	68.8	70.0	70.2	70.8	71.1	71.2	71.4	71.4	71.5	71.7
≥12000	44.8	57.1	62.1	62.1	67.7	68.4	70.1	71.3	71.6	72.2	72.5	72.6	72.8	72.8	72.9	73.1
≥10000	46.8	59.5	64.7	64.7	71.9	71.6	73.4	74.8	75.1	75.7	76.0	76.1	76.3	76.3	76.4	76.5
≥9000	47.1	59.8	65.1	65.1	71.4	72.1	73.9	75.3	75.6	76.2	76.5	76.6	76.8	76.8	76.9	77.0
≥8000	48.8	61.8	67.3	67.3	73.7	74.5	76.3	77.8	78.2	78.8	79.1	79.2	79.4	79.4	79.5	79.7
≥7000	49.4	62.6	68.1	68.1	74.7	75.5	77.5	79.0	79.3	79.9	80.3	80.4	80.6	80.6	80.7	80.8
≥6000	49.6	62.8	68.4	68.4	75.0	75.9	77.8	79.3	79.7	80.3	80.7	80.8	81.0	81.0	81.1	81.3
≥5000	50.3	63.8	69.5	69.5	76.2	77.0	79.0	80.5	80.8	81.5	81.9	82.0	82.2	82.2	82.3	82.5
≥4500	50.8	64.4	70.2	70.2	77.0	77.9	79.9	81.4	81.8	82.4	82.8	82.9	83.2	83.2	83.3	83.4
≥4000	52.3	66.2	72.2	72.2	79.3	80.2	82.3	83.9	84.3	84.9	85.3	85.4	85.7	85.7	85.8	85.9
≥3500	53.7	68.0	74.1	74.1	81.4	82.4	84.5	86.2	86.5	87.2	87.6	87.7	87.9	88.0	88.0	88.2
≥3000	55.6	70.6	77.2	77.2	84.9	85.9	88.2	89.9	90.2	90.9	91.3	91.4	91.7	91.7	91.8	92.0
≥2500	56.0	71.3	78.0	78.0	85.9	86.9	89.2	90.9	91.2	91.9	92.3	92.4	92.7	92.7	92.8	93.0
≥2000	56.7	72.1	79.0	79.0	87.1	88.1	90.4	92.2	92.6	93.3	93.7	93.8	94.1	94.1	94.2	94.4
≥1800	56.7	72.2	79.1	79.1	87.2	88.2	90.6	92.4	92.8	93.5	93.9	94.0	94.3	94.3	94.4	94.6
≥1500	57.3	72.9	79.9	79.9	88.3	89.4	91.8	93.7	94.1	94.8	95.2	95.3	95.6	95.6	95.7	95.9
≥1200	57.6	73.3	80.4	80.4	89.0	90.1	92.5	94.4	94.8	95.5	96.0	96.1	96.4	96.4	96.5	96.7
≥1000	57.9	73.7	80.8	80.8	89.6	90.7	93.1	95.0	95.5	96.2	96.7	96.8	97.1	97.1	97.2	97.4
≥900	58.0	73.8	80.9	80.9	89.7	90.9	93.3	95.2	95.6	96.4	96.8	97.0	97.2	97.3	97.3	97.5
≥800	58.1	73.9	81.1	81.1	89.9	91.0	93.4	95.4	95.8	96.6	97.1	97.2	97.5	97.5	97.6	97.8
≥700	58.1	74.0	81.2	81.2	90.1	91.2	93.7	95.6	96.0	96.8	97.3	97.5	97.7	97.7	97.8	98.0
≥600	58.1	74.0	81.3	81.3	90.3	91.5	94.0	96.0	96.4	97.2	97.7	97.9	98.1	98.2	98.3	98.5
≥500	58.1	74.0	81.3	81.3	90.4	91.6	94.2	96.2	96.6	97.5	98.0	98.2	98.5	98.5	98.6	98.8
≥400	58.1	74.0	81.3	81.3	90.4	91.7	94.3	96.3	96.8	97.6	98.2	98.4	98.7	98.8	98.9	99.1
≥300	58.1	74.0	81.3	81.3	90.4	91.7	94.3	96.4	96.9	97.8	98.4	98.5	98.9	98.9	99.0	99.4
≥200	58.1	74.0	81.3	81.3	90.4	91.7	94.3	96.4	96.9	97.8	98.4	98.6	98.9	99.0	99.1	99.6
≥100	58.1	74.0	81.3	81.3	90.5	91.7	94.3	96.4	96.9	97.8	98.4	98.6	99.0	99.1	99.2	100.0
0	58.1	74.0	81.3	81.3	90.5	91.7	94.3	96.4	96.9	97.8	98.4	98.6	99.0	99.1	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 6514

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4712  
STATION

USAN AB KO

STATION NAME

73-81

YEARS

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ .	≥ 0
NO CEILING	44.6	51.6	53.3	53.3	57.3	57.9	58.4	59.1	59.3	59.6	59.8	59.9	59.9	59.9	60.0	60.0
≥ 20000	48.5	56.8	59.1	59.1	63.8	64.5	65.2	65.9	66.0	66.4	66.5	66.7	66.7	66.7	66.8	66.8
≥ 18000	49.7	57.3	59.6	59.6	64.3	65.0	65.7	66.4	66.5	66.9	67.0	67.2	67.2	67.2	67.3	67.3
≥ 16000	49.7	57.4	59.8	59.8	64.4	65.2	65.8	66.5	66.7	67.0	67.2	67.3	67.3	67.3	67.4	67.4
≥ 14000	49.4	57.8	60.2	60.2	64.8	65.5	66.2	66.9	67.0	67.4	67.5	67.7	67.7	67.7	67.8	67.8
≥ 12000	50.3	59.4	61.8	61.8	66.7	67.4	68.0	68.8	68.9	69.3	69.4	69.5	69.5	69.5	69.7	69.7
≥ 10000	51.6	60.5	63.0	63.0	68.3	69.0	69.7	70.4	70.6	70.9	71.1	71.2	71.2	71.2	71.3	71.3
≥ 9000	52.4	61.4	63.9	63.9	69.3	70.1	70.7	71.4	71.6	71.9	72.1	72.2	72.2	72.2	72.3	72.3
≥ 8000	55.4	64.5	67.5	67.5	73.6	74.3	74.9	75.7	75.8	76.2	76.3	76.4	76.4	76.4	76.6	76.6
≥ 7000	56.5	65.9	68.9	68.9	74.9	75.7	76.3	77.1	77.2	77.6	77.7	77.8	77.8	77.8	77.9	77.9
≥ 6000	56.3	66.2	69.3	69.3	75.3	76.1	76.7	77.4	77.6	77.9	78.1	78.2	78.2	78.2	78.3	78.3
≥ 5000	57.8	67.4	71.1	71.1	77.3	78.2	78.8	79.6	79.7	80.1	80.2	80.3	80.3	80.3	80.5	80.5
≥ 4500	58.4	68.7	72.4	72.4	78.9	79.8	80.5	81.5	81.6	82.0	82.1	82.2	82.2	82.2	82.3	82.3
≥ 4000	60.0	71.1	75.2	75.2	82.1	83.1	84.0	85.2	85.3	85.7	85.8	86.0	86.0	86.0	86.1	86.1
≥ 3500	60.4	71.6	75.7	75.7	82.7	83.7	84.6	85.8	86.0	86.3	86.5	86.6	86.6	86.6	86.7	86.7
≥ 3000	62.2	73.6	78.2	78.2	85.8	87.0	88.0	89.2	89.3	89.7	89.8	90.0	90.0	90.0	90.1	90.1
≥ 2500	62.7	74.1	78.8	78.8	87.0	88.3	89.3	90.7	90.9	91.2	91.4	91.5	91.5	91.5	91.6	91.6
≥ 2000	63.2	74.6	79.3	79.3	87.8	89.3	90.5	92.1	92.2	92.6	92.7	92.9	92.9	92.9	93.0	93.0
≥ 1800	63.3	74.7	79.6	79.6	88.2	89.7	90.9	92.5	92.6	93.1	93.2	93.4	93.4	93.4	93.5	93.5
≥ 1600	63.7	75.1	80.2	80.2	89.0	90.7	91.9	93.5	93.6	94.1	94.2	94.4	94.4	94.4	94.5	94.5
≥ 1400	63.9	75.3	80.5	80.5	89.6	91.4	92.5	94.1	94.2	94.7	94.9	95.0	95.0	95.0	95.1	95.1
≥ 1200	64.2	75.6	80.7	80.7	89.8	91.6	92.7	94.4	94.5	95.0	95.2	95.4	95.4	95.4	95.5	95.5
≥ 1000	64.2	75.6	80.8	80.8	90.0	91.7	93.0	94.6	94.7	95.2	95.5	95.6	95.6	95.6	95.7	95.7
≥ 900	64.4	75.8	81.1	81.1	90.4	92.1	93.4	95.0	95.1	95.6	95.9	96.0	96.0	96.0	96.1	96.1
≥ 800	65.0	76.4	81.7	81.7	91.1	93.1	94.9	96.5	96.6	97.1	97.4	97.5	97.5	97.5	97.6	97.6
≥ 700	65.3	76.8	82.1	82.1	91.6	93.6	95.4	97.0	97.1	97.6	97.9	98.0	98.0	98.0	98.1	98.1
≥ 600	65.3	76.8	82.1	82.1	91.7	93.7	95.7	97.4	97.5	98.0	98.4	98.5	98.5	98.5	98.6	98.6
≥ 500	65.4	76.9	82.3	82.3	92.2	94.4	96.5	98.1	98.2	98.7	99.1	99.2	99.7	99.7	100.0	100.0
≥ 400	65.4	76.9	82.3	82.3	92.2	94.4	96.5	98.1	98.2	98.7	99.1	99.2	99.7	99.7	100.0	100.0
≥ 300	65.4	76.9	82.3	82.3	92.2	94.4	96.5	98.1	98.2	98.7	99.1	99.2	99.7	99.7	100.0	100.0
≥ 200	65.4	76.9	82.3	82.3	92.2	94.4	96.5	98.1	98.2	98.7	99.1	99.2	99.7	99.7	100.0	100.0
≥ 100	65.4	76.9	82.3	82.3	92.2	94.4	96.5	98.1	98.2	98.7	99.1	99.2	99.7	99.7	100.0	100.0
≥ 0	65.4	76.9	82.3	82.3	92.2	94.4	96.5	98.1	98.2	98.7	99.1	99.2	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

798



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5-16	≥¼	≥0
NO CEILING	35.2	44.1	47.4	47.4	51.2	51.7	53.6	54.4	55.2	55.4	55.4	55.4	55.4	55.9	56.1	56.2
≥ 20000	38.7	49.3	53.3	53.3	58.8	59.3	61.6	62.6	63.5	63.7	63.7	63.7	64.2	64.3	64.5	65.0
≥ 18000	38.8	49.4	53.4	53.4	59.2	59.7	62.0	63.0	63.8	64.1	64.1	64.1	64.6	64.7	64.8	65.3
≥ 16000	38.8	49.7	53.7	53.7	59.4	59.9	62.2	63.2	64.1	64.3	64.3	64.3	64.8	65.0	65.1	65.6
≥ 14000	38.8	49.8	53.8	53.8	59.6	60.1	62.3	63.3	64.2	64.5	64.5	64.5	65.0	65.1	65.2	65.7
≥ 12000	39.3	50.4	54.4	54.4	60.2	60.7	63.1	64.2	65.1	65.3	65.3	65.3	65.8	66.0	66.1	66.6
≥ 10000	40.8	52.8	57.1	57.1	62.8	63.3	65.7	66.8	67.7	68.0	68.0	68.0	68.5	68.6	68.7	69.2
≥ 9000	41.3	53.4	57.7	57.7	64.0	64.5	66.8	68.0	68.8	69.1	69.1	69.1	69.6	69.7	69.8	70.3
≥ 8000	42.8	55.3	60.6	60.6	67.1	67.8	70.3	71.5	72.3	72.6	72.6	72.6	73.1	73.2	73.3	73.8
≥ 7000	43.9	56.4	62.1	62.1	68.6	69.3	71.8	73.0	73.8	74.1	74.1	74.1	74.6	74.7	74.8	75.3
≥ 6000	43.9	56.7	62.6	62.6	69.2	70.0	72.5	73.8	74.8	75.1	75.1	75.1	75.6	75.7	75.8	76.3
≥ 5000	45.7	58.9	65.0	65.0	71.7	72.5	75.0	76.3	77.3	77.6	77.6	77.6	78.1	78.2	78.3	78.8
≥ 4500	46.1	59.6	65.6	65.6	72.5	73.2	75.7	77.1	78.1	78.3	78.3	78.3	78.8	79.0	79.1	79.6
≥ 4000	47.7	61.7	68.1	68.1	75.8	76.6	79.2	80.6	81.6	81.9	81.9	81.9	82.4	82.5	82.6	83.1
≥ 3500	47.8	62.3	68.6	68.6	76.7	77.5	80.1	81.5	82.5	82.7	82.7	82.7	83.2	83.4	83.5	84.0
≥ 3000	49.7	64.3	72.0	72.0	80.6	81.4	84.2	85.6	86.6	86.9	86.9	86.9	87.4	87.5	87.6	88.1
≥ 2500	50.1	65.1	72.8	72.8	81.6	82.4	85.2	86.7	87.7	88.0	88.0	88.0	88.5	88.6	88.7	89.2
≥ 2000	50.3	65.7	73.8	73.8	83.1	84.1	87.1	89.0	90.0	90.4	90.4	90.4	90.9	91.0	91.1	91.6
≥ 1800	50.4	66.0	74.1	74.1	83.4	84.5	87.5	89.4	90.4	90.9	90.9	90.9	91.4	91.5	91.6	92.1
≥ 1500	50.7	66.5	74.7	74.7	84.4	85.7	88.7	90.6	91.6	92.1	92.1	92.1	92.6	92.7	92.9	93.4
≥ 1200	50.9	66.8	75.1	75.1	84.7	86.1	89.1	91.0	92.0	92.5	92.5	92.5	93.0	93.1	93.2	93.7
≥ 1000	50.9	66.8	75.1	75.1	84.7	86.1	89.1	91.0	92.0	92.5	92.5	92.5	93.0	93.1	93.2	93.7
≥ 900	51.1	67.1	75.3	75.3	85.0	86.4	89.4	91.2	92.2	92.7	92.7	92.7	93.2	93.4	93.5	94.0
≥ 800	51.3	67.6	75.8	75.8	85.5	86.9	90.2	92.1	93.1	93.6	93.6	93.6	94.1	94.2	94.4	94.9
≥ 700	51.4	67.7	76.0	76.0	86.4	87.7	91.1	93.0	94.0	94.5	94.5	94.5	95.0	95.1	95.2	95.7
≥ 600	51.8	68.1	76.3	76.3	86.7	88.2	91.7	93.6	94.6	95.1	95.1	95.1	95.6	95.7	95.9	96.4
≥ 500	52.1	68.3	76.8	76.8	87.2	88.7	92.2	94.1	95.1	95.6	96.0	96.0	96.6	96.7	96.9	97.4
≥ 400	52.4	68.7	77.2	77.2	87.7	89.2	92.7	94.6	95.6	96.1	96.6	96.6	97.2	97.4	97.6	98.1
≥ 300	52.4	68.8	77.5	77.5	88.4	89.9	93.4	95.2	96.2	97.0	97.5	97.5	98.1	98.2	98.5	99.0
≥ 200	52.4	68.8	77.5	77.5	88.4	89.9	93.4	95.2	96.4	97.2	98.0	98.0	98.7	98.9	99.2	99.7
≥ 100	52.4	68.8	77.5	77.5	88.4	89.9	93.4	95.2	96.4	97.2	98.0	98.0	98.7	98.9	99.2	100.0
≥ 0	52.4	68.8	77.5	77.5	88.4	89.9	93.4	95.2	96.4	97.2	98.0	98.0	98.7	98.9	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 799

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	17.1	22.9	27.6	27.6	36.4	38.8	41.8	44.5	46.0	47.1	47.5	47.8	48.6	48.8	49.1	50.3
≥ 20000	19.5	27.1	32.5	32.5	42.6	45.3	48.6	51.8	53.5	54.6	55.1	55.4	56.3	56.4	56.9	58.6
≥ 18000	19.5	27.4	32.9	32.9	43.0	45.6	49.1	52.6	54.4	55.5	56.0	56.3	57.1	57.3	57.8	59.5
≥ 16000	19.5	27.5	33.2	33.0	43.1	45.8	49.3	52.8	54.5	55.6	56.1	56.4	57.3	57.5	58.0	59.8
≥ 14000	19.6	28.3	33.9	33.9	44.0	46.6	50.1	53.6	55.4	56.5	57.0	57.3	58.1	58.4	58.9	60.6
≥ 12000	19.9	28.6	34.3	34.3	44.5	47.1	50.6	54.3	56.0	57.1	57.6	57.9	58.8	59.0	59.5	61.3
≥ 10000	21.1	30.0	35.8	35.8	46.5	49.1	52.8	56.6	58.4	59.6	60.3	60.5	61.4	61.6	62.1	63.9
≥ 9000	21.3	30.1	36.0	36.0	46.9	49.5	53.1	57.0	58.8	60.0	60.6	60.9	61.8	62.0	62.5	64.3
≥ 8000	23.6	33.4	40.0	40.0	51.5	54.5	58.5	62.8	64.6	65.9	66.5	66.8	67.8	68.0	68.5	70.3
≥ 7000	24.8	34.8	41.5	41.5	53.5	56.5	60.9	65.1	67.0	68.3	68.9	69.1	70.1	70.4	70.9	72.6
≥ 6000	24.8	34.8	41.5	41.5	53.8	56.8	61.1	65.4	67.3	68.5	69.1	69.4	70.4	70.6	71.1	72.9
≥ 5000	25.4	36.1	43.1	43.1	56.0	59.0	63.8	68.0	69.9	71.3	71.9	72.1	73.1	73.4	73.9	75.6
≥ 4500	25.4	36.6	43.6	43.6	56.5	59.5	64.3	68.5	70.4	71.8	72.4	72.6	73.6	73.9	74.4	76.1
≥ 4000	27.0	38.8	46.3	46.3	60.1	63.1	68.0	72.9	74.8	76.1	76.8	77.0	78.0	78.3	78.9	80.6
≥ 3500	27.9	39.8	47.4	47.4	61.5	64.5	69.4	74.3	76.1	77.5	78.1	78.4	79.4	79.6	80.3	82.0
≥ 3000	28.8	41.5	49.6	49.6	64.5	67.6	72.8	77.6	79.6	81.1	81.8	82.0	83.0	83.3	83.9	85.6
≥ 2500	29.3	42.1	50.4	50.4	65.4	68.6	73.8	78.6	80.6	82.1	82.8	83.0	84.0	84.3	84.9	86.6
≥ 2000	29.9	43.3	51.6	51.6	66.9	70.3	75.5	80.4	82.4	83.9	84.5	84.8	85.8	86.0	86.6	88.4
≥ 1800	30.0	43.4	51.9	51.9	67.3	70.6	75.9	80.8	82.8	84.3	84.9	85.1	86.1	86.4	87.0	88.8
≥ 1500	30.6	44.5	53.6	53.6	69.1	72.5	78.0	83.0	85.0	86.5	87.1	87.4	88.4	88.6	89.3	91.0
≥ 1200	30.6	44.8	53.9	53.9	69.4	72.8	78.4	83.4	85.4	86.9	87.5	87.8	88.8	89.0	89.6	91.4
≥ 1000	30.9	45.1	54.9	54.9	70.4	73.8	79.6	84.8	86.8	88.3	88.9	89.1	90.1	90.4	91.0	92.8
≥ 900	30.9	45.1	54.9	54.9	70.5	73.9	79.9	85.0	87.0	88.5	89.4	89.6	90.6	90.9	91.5	93.3
≥ 800	31.3	45.4	55.3	55.3	71.6	75.0	81.3	86.6	88.5	90.0	90.9	91.1	92.1	92.4	93.0	94.8
≥ 700	31.3	45.8	55.6	55.6	72.0	75.5	81.8	87.0	89.0	90.5	91.4	91.6	92.6	92.9	93.5	95.3
≥ 600	31.3	45.8	55.6	55.6	72.1	75.8	82.0	87.4	89.5	91.0	91.9	92.1	93.1	93.4	94.0	95.8
≥ 500	31.4	45.9	55.9	55.9	72.6	76.3	82.6	88.4	90.5	92.0	92.9	93.1	94.1	94.4	95.0	96.8
≥ 400	31.4	45.9	55.9	55.9	72.8	76.4	83.0	88.9	91.0	92.5	93.4	93.6	94.6	94.9	95.5	97.3
≥ 300	31.4	45.9	55.9	55.9	72.8	76.4	83.0	89.0	91.1	93.0	93.9	94.1	95.4	95.8	96.4	98.6
≥ 200	31.4	45.9	55.9	55.9	72.8	76.4	83.0	89.0	91.1	93.1	94.1	94.4	95.6	96.0	96.6	99.4
≥ 100	31.4	45.9	55.9	55.9	72.8	76.4	83.0	89.0	91.1	93.3	94.3	94.3	95.8	96.1	96.9	100.0
≥ 0	31.4	45.9	55.9	55.9	72.8	76.4	83.0	89.0	91.1	93.3	94.3	94.5	95.8	96.1	96.9	100.0

TOTAL NUMBER OF OBSERVATIONS 800

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

471227  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥⅓	≥⅒	≥0
NO CEILING	31.9	40.7	44.3	44.3	46.6	47.7	48.0	48.4	48.5	48.5	48.6	48.6	48.6	48.7	48.7	48.7
≥ 20000	37.6	49.4	53.8	53.8	56.8	58.3	58.8	59.2	59.3	59.3	59.4	59.4	59.4	59.8	59.8	59.9
≥ 18000	38.1	50.0	54.5	54.5	57.5	59.0	59.5	59.9	60.1	60.1	60.2	60.2	60.2	60.6	60.6	60.7
≥ 16000	38.3	50.6	55.2	55.2	58.3	59.8	60.3	60.7	60.9	60.9	61.1	61.1	61.1	61.4	61.4	61.6
≥ 14000	38.9	51.6	56.2	56.2	59.3	60.8	61.3	61.7	61.9	61.9	62.1	62.1	62.1	62.4	62.4	62.6
≥ 12000	39.8	52.6	57.2	57.2	60.3	61.8	62.3	62.7	62.9	62.9	63.1	63.1	63.1	63.4	63.4	63.6
≥ 10000	41.1	54.5	59.2	59.2	62.8	64.3	64.9	65.6	65.8	65.8	66.0	66.0	66.0	66.3	66.3	66.5
≥ 9000	41.3	54.9	59.5	59.5	63.2	64.7	65.3	66.0	66.2	66.2	66.3	66.3	66.3	66.7	66.7	66.8
≥ 8000	43.1	57.7	62.4	62.4	66.3	67.8	68.7	69.3	69.6	69.6	69.7	69.7	69.7	70.1	70.1	70.2
≥ 7000	43.8	58.7	63.6	63.6	67.5	69.0	69.8	70.5	70.7	70.7	70.9	70.9	70.9	71.2	71.2	71.4
≥ 6000	44.2	59.3	64.2	64.2	68.1	69.6	70.5	71.1	71.4	71.4	71.5	71.5	71.5	71.9	71.9	72.0
≥ 5000	45.5	61.8	66.7	66.7	70.7	72.4	73.2	73.9	74.1	74.1	74.2	74.2	74.2	74.6	74.6	74.7
≥ 4500	45.7	62.1	67.0	67.0	71.0	72.6	73.5	74.1	74.4	74.4	74.5	74.5	74.5	74.9	74.9	75.0
≥ 4000	47.4	64.3	69.3	69.3	73.9	75.6	76.6	77.5	77.8	77.8	78.0	78.0	78.0	78.4	78.4	78.5
≥ 3500	48.6	65.8	70.9	70.9	75.5	77.4	78.4	79.3	79.5	79.5	79.8	79.8	79.8	80.2	80.2	80.3
≥ 3000	52.1	70.1	75.4	75.4	80.2	82.0	83.3	84.4	84.7	84.8	85.1	85.1	85.2	85.6	85.6	85.7
≥ 2500	52.9	71.0	76.5	76.5	81.7	83.5	84.8	86.1	86.3	86.4	86.7	86.7	86.8	87.2	87.2	87.3
≥ 2000	53.8	72.6	78.4	78.4	84.2	86.1	87.3	88.6	88.8	88.9	89.2	89.2	89.3	89.7	89.7	89.8
≥ 1800	54.0	72.9	78.6	78.6	84.4	86.3	87.6	88.8	89.1	89.2	89.4	89.4	89.6	89.9	89.9	90.1
≥ 1500	55.3	74.2	80.2	80.2	86.2	88.1	89.6	91.0	91.2	91.3	91.6	91.6	91.7	92.1	92.1	92.2
≥ 1200	55.4	74.4	80.5	80.5	87.2	89.1	90.6	92.0	92.2	92.3	92.6	92.6	92.7	93.1	93.1	93.2
≥ 1000	56.2	75.1	81.7	81.7	88.6	90.5	92.1	93.5	93.7	93.8	94.2	94.2	94.3	94.7	94.7	94.8
≥ 900	56.3	75.4	81.9	81.9	88.8	90.7	92.3	94.0	94.2	94.3	94.7	94.7	95.0	95.4	95.4	95.5
≥ 800	56.4	75.5	82.3	82.3	89.6	91.7	93.5	95.2	95.5	95.6	96.0	96.0	96.2	96.6	96.6	96.9
≥ 700	56.8	76.1	82.9	82.9	90.2	92.3	94.2	96.0	96.2	96.4	96.7	96.7	97.0	97.4	97.4	97.7
≥ 600	56.9	76.3	83.2	83.2	90.5	92.8	94.7	96.5	96.7	96.9	97.2	97.2	97.5	97.9	97.9	98.2
≥ 500	56.9	76.3	83.2	83.2	90.7	93.1	95.0	96.9	97.1	97.2	97.6	97.6	97.9	98.2	98.2	98.6
≥ 400	56.9	76.3	83.2	83.2	90.8	93.2	95.4	97.2	97.6	97.7	98.2	98.2	98.5	98.9	98.9	99.2
≥ 300	56.9	76.3	83.2	83.2	90.8	93.2	95.4	97.4	97.7	98.0	98.5	98.6	99.1	99.5	99.5	99.9
≥ 200	56.9	76.3	83.2	83.2	90.8	93.2	95.4	97.4	97.7	98.0	98.5	98.6	99.1	99.5	99.5	99.9
≥ 100	56.9	76.3	83.2	83.2	90.8	93.2	95.4	97.4	97.7	98.0	98.5	98.6	99.1	99.5	99.5	99.9
≥ 0	56.9	76.3	83.2	83.2	90.8	93.3	95.5	97.5	97.9	98.1	98.6	98.7	99.2	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 796

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	42.5	50.1	50.9	50.9	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 20000	51.2	60.9	61.9	61.9	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 18000	52.1	62.0	63.1	63.1	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 16000	52.1	62.4	63.5	63.5	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 14000	52.9	63.4	64.5	64.5	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 12000	54.0	64.6	65.9	65.9	66.7	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 10000	55.7	66.9	68.1	68.1	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 9000	56.7	68.0	69.2	69.2	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 8000	58.5	71.0	72.4	72.4	73.2	73.3	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 7000	59.9	72.4	74.0	74.0	74.8	75.0	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 6000	60.5	73.1	74.7	74.7	75.6	75.7	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 5000	60.9	74.7	76.3	76.3	77.2	77.3	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
≥ 4500	61.7	74.8	76.5	76.5	77.3	77.5	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 4000	64.3	78.3	80.1	80.1	81.1	81.2	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 3500	65.3	80.0	81.7	81.7	82.7	82.8	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 3000	70.0	85.3	87.4	87.4	88.5	88.7	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 2500	70.7	86.3	88.5	88.5	90.0	90.2	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 2000	71.2	87.3	89.8	89.8	91.7	91.8	92.0	92.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1800	71.4	87.5	90.2	90.2	92.0	92.2	92.4	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1500	72.4	89.0	92.0	92.0	94.0	94.3	95.1	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1200	72.6	89.4	92.5	92.5	94.6	95.0	95.9	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1000	73.2	90.5	93.6	93.6	96.4	96.8	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 900	73.2	90.5	93.6	93.6	96.4	96.8	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 800	73.2	90.5	93.6	93.6	96.4	96.8	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 700	73.3	90.7	94.0	94.0	96.9	97.3	98.4	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	73.3	90.7	94.0	94.0	96.9	97.5	98.6	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	73.3	90.7	94.0	94.0	97.0	97.6	98.8	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 400	73.3	90.7	94.0	94.0	97.0	97.6	98.8	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	73.3	90.7	94.0	94.0	97.0	97.6	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	73.3	90.7	94.0	94.0	97.0	97.6	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	73.3	90.7	94.0	94.0	97.0	97.6	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	73.3	90.7	94.0	94.0	97.0	97.6	98.9	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 803

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB XO  
STATION NAME

73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥5/16	≥0
NO CEILING	44.6	51.1	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	52.1	52.1
≥ 20000	53.5	62.8	63.5	63.5	63.9	63.9	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.5	64.5
≥ 18000	55.8	65.0	65.8	65.8	66.1	66.1	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.7	66.7
≥ 16000	55.8	65.0	65.8	65.8	66.1	66.1	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.7	66.7
≥ 14000	56.9	66.3	67.0	67.0	67.4	67.4	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	68.0	68.0
≥ 12000	58.4	68.1	68.9	68.9	69.2	69.2	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.9	69.9
≥ 10000	60.8	71.0	71.7	71.7	72.1	72.1	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.7	72.7
≥ 9000	61.5	71.9	72.6	72.6	73.0	73.0	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.6	73.6
≥ 8000	64.1	75.6	76.3	76.3	77.0	77.0	77.2	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.8	77.8
≥ 7000	65.5	77.3	78.1	78.1	78.7	78.7	79.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.6	79.6
≥ 6000	66.4	78.3	79.1	79.1	79.8	79.8	80.1	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.7	80.7
≥ 5000	68.1	80.8	81.7	81.7	82.4	82.4	82.7	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.3	83.3
≥ 4500	68.2	81.1	81.9	81.9	82.7	82.7	82.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.6	83.6
≥ 4000	70.4	83.3	84.2	84.2	85.1	85.1	85.3	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.9	85.9
≥ 3500	70.9	83.8	84.7	84.7	85.6	85.6	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.4	86.4
≥ 3000	73.0	86.2	87.0	87.0	88.3	88.3	88.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.3	89.3
≥ 2500	73.6	87.0	88.0	88.0	89.5	89.5	89.8	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.7	90.7
≥ 2000	75.1	88.8	90.2	90.2	91.9	91.9	92.4	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.5	93.5
≥ 1800	75.2	88.9	90.3	90.3	92.3	92.3	92.8	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.9	93.9
≥ 1500	76.1	90.0	91.5	91.5	93.9	93.9	94.5	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.8	95.8
≥ 1200	76.8	91.0	92.7	92.7	95.0	95.0	95.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	97.0	97.0
≥ 1000	77.0	91.3	92.9	92.9	95.4	95.4	96.0	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.5	97.5
≥ 900	77.3	91.3	92.9	92.9	95.4	95.4	96.0	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.5	97.5
≥ 800	77.2	91.7	93.3	93.3	95.9	95.9	96.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8	98.0	98.0
≥ 700	77.3	92.0	93.6	93.6	96.3	96.3	96.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.4	98.4
≥ 600	77.3	92.2	93.9	93.9	96.6	96.6	97.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.9	98.9
≥ 500	77.5	92.3	94.0	94.0	96.8	96.8	97.5	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.3	99.3
≥ 400	77.5	92.3	94.0	94.0	96.8	96.8	97.5	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.4	99.4
≥ 300	77.5	92.3	94.0	94.0	96.9	96.9	97.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.8	99.8
≥ 200	77.5	92.3	94.0	94.0	96.9	96.9	97.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.8	99.8
≥ 100	77.5	92.3	94.0	94.0	96.9	96.9	97.8	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.8	99.8
≥ 0	77.5	92.3	94.0	94.0	96.9	96.9	97.8	99.5	99.6	99.6	99.6	99.6	99.6	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 803

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥8	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¼	≥0
NO CEILING	46.7	52.0	53.1	53.1	53.9	54.1	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
≥ 20000	53.1	62.3	63.4	63.4	64.4	64.7	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 18000	54.6	63.9	65.0	65.0	66.2	66.4	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 16000	54.8	64.2	65.3	65.3	66.4	66.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 14000	55.9	65.3	66.4	66.4	67.5	67.8	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 12000	56.8	66.4	67.7	67.7	68.8	69.0	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 10000	60.2	69.9	71.2	71.2	72.3	72.6	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 9000	61.2	71.8	73.1	73.1	74.2	74.4	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 8000	64.5	75.4	76.8	76.8	78.3	78.6	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 7000	65.5	76.4	77.9	77.9	79.7	79.9	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 6000	66.9	78.9	80.5	80.5	82.2	82.5	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 5000	67.7	81.0	82.5	82.5	84.5	84.7	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4500	67.9	81.2	82.8	82.8	84.8	85.1	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 4000	70.1	83.3	85.1	85.1	87.8	88.1	88.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3500	70.2	83.5	85.2	85.2	88.0	88.2	88.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 3000	71.6	84.8	86.6	86.6	89.7	90.0	90.6	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 2500	71.7	85.2	87.1	87.1	90.4	90.6	91.5	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2000	72.1	85.7	88.0	88.0	91.2	91.9	92.7	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 1800	72.2	86.0	88.3	88.3	91.6	92.2	93.1	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 1500	72.6	86.6	89.3	89.3	93.0	93.6	94.5	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1200	72.9	87.3	90.5	90.5	94.2	94.9	95.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1000	72.9	87.3	90.7	90.7	94.7	95.4	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 900	73.1	87.5	90.9	90.9	95.0	95.6	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 800	73.1	87.6	91.1	91.1	95.4	96.0	97.2	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 700	73.1	87.6	91.2	91.2	95.5	96.1	97.4	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 600	73.1	87.7	91.5	91.5	95.9	96.5	97.7	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 500	73.1	87.7	91.5	91.5	96.1	96.7	98.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 400	73.1	87.7	91.6	91.6	96.4	97.0	98.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	73.1	87.7	91.6	91.6	96.4	97.1	98.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	73.1	87.7	91.6	91.6	96.4	97.1	98.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	73.1	87.7	91.6	91.6	96.4	97.1	98.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	73.1	87.7	91.6	91.6	96.4	97.1	98.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 798

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

471221  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (L.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥0
NO CEILING	46.7	52.4	54.1	54.1	56.0	56.3	56.4	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 20000	51.5	59.7	62.2	62.2	64.7	64.9	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 18000	51.6	59.8	62.3	62.3	64.8	65.1	65.2	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 16000	51.6	59.9	62.4	62.4	64.9	65.2	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 14000	52.4	60.7	63.2	63.2	65.7	66.0	66.1	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 12000	53.9	62.6	65.1	65.1	67.7	68.0	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 10000	57.2	66.2	69.1	69.1	71.7	72.0	72.1	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 9000	58.0	67.5	70.4	70.4	73.1	73.4	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 8000	60.7	70.5	73.4	73.4	76.3	76.6	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 7000	61.2	71.1	74.0	74.0	77.0	77.4	77.5	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 6000	62.4	72.9	75.9	75.9	78.9	79.3	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 5000	62.8	74.3	77.0	77.0	80.0	80.4	80.5	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 4500	63.2	74.7	77.8	77.8	80.9	81.3	81.4	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 4000	66.3	78.5	81.7	81.7	86.2	86.6	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 3500	66.7	79.0	82.4	82.4	87.2	87.6	87.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IV 3000	68.0	80.3	84.2	84.2	88.9	89.3	89.6	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
IV 2500	68.5	81.4	85.3	85.3	90.3	91.0	91.2	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 2000	68.7	82.0	86.2	86.2	91.7	92.5	93.0	93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 1800	68.7	82.2	86.3	86.3	91.8	92.6	93.1	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2
IV 1500	68.7	82.2	86.8	86.8	93.0	93.8	94.5	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6
IV 1200	68.8	82.4	87.3	87.3	93.5	94.3	95.0	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.1
IV 1000	69.1	82.7	87.6	87.6	93.7	94.6	95.2	96.1	96.1	96.4	96.4	96.4	96.4	96.4	96.4
IV 900	69.3	82.9	87.8	87.8	94.0	95.0	95.6	96.5	96.5	96.7	96.7	96.7	96.7	96.7	96.7
IV 800	69.7	83.3	88.2	88.2	94.3	95.4	96.1	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2
IV 700	70.0	83.7	88.6	88.6	95.0	96.0	96.9	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0
IV 600	70.2	84.0	88.9	88.9	95.4	96.4	97.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6
IV 500	70.5	84.3	89.3	89.3	95.7	97.1	98.0	99.1	99.1	99.4	99.4	99.4	99.4	99.4	99.4
IV 400	70.5	84.3	89.4	89.4	95.9	97.2	98.1	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5
IV 300	70.6	84.4	89.7	89.7	96.1	97.6	98.5	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9
IV 200	70.6	84.4	89.7	89.7	96.1	97.6	98.5	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0
IV 100	70.6	84.4	89.7	89.7	96.1	97.6	98.5	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0
IV 0	70.6	84.4	89.7	89.7	96.1	97.6	98.5	99.6	99.6	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 796

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIP WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

APR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5-16	≥¼	≥0
NO CEILING	38.6	45.6	47.8	47.8	50.6	51.3	52.0	52.6	52.9	53.2	53.2	53.3	53.5	53.5	53.6	53.8
≥ 20000	44.2	53.5	56.2	56.2	59.7	60.5	61.4	62.1	62.5	62.7	62.8	62.8	63.0	63.1	63.2	63.5
≥ 18000	44.9	54.4	57.1	57.1	60.6	61.4	62.4	63.1	63.5	63.7	63.8	63.8	64.0	64.1	64.2	64.5
≥ 16000	45.0	54.6	57.3	57.3	60.9	61.6	62.6	63.4	63.7	64.0	64.1	64.1	64.3	64.4	64.5	64.8
≥ 14000	45.6	55.4	58.1	58.1	61.7	62.5	63.4	64.2	64.6	64.8	64.9	64.9	65.1	65.2	65.3	65.6
≥ 12000	46.6	56.6	59.4	59.4	63.0	63.8	64.8	65.5	65.9	66.1	66.2	66.3	66.4	66.6	66.7	67.0
≥ 10000	48.6	59.0	61.9	61.9	65.7	66.4	67.5	68.3	68.7	68.9	69.0	69.1	69.2	69.4	69.5	69.8
≥ 9000	49.2	59.9	62.8	62.8	66.7	67.5	68.5	69.3	69.7	69.9	70.0	70.1	70.3	70.4	70.5	70.8
≥ 8000	51.6	62.9	66.2	66.2	70.4	71.2	72.4	73.3	73.7	73.9	74.0	74.1	74.3	74.4	74.5	74.8
≥ 7000	52.7	64.1	67.5	67.5	71.8	72.7	73.9	74.8	75.2	75.4	75.5	75.6	75.8	75.9	76.0	76.3
≥ 6000	53.2	65.0	68.5	68.5	72.9	73.7	74.9	75.8	76.3	76.5	76.6	76.6	76.8	77.0	77.1	77.4
≥ 5000	54.2	66.9	70.4	70.4	75.0	75.9	77.1	78.1	78.5	78.7	78.8	78.9	79.1	79.2	79.3	79.6
≥ 4500	54.5	67.4	71.0	71.0	75.6	76.5	77.7	78.7	79.1	79.3	79.4	79.5	79.7	79.8	79.9	80.2
≥ 4000	56.6	69.9	73.7	73.7	79.0	79.9	81.2	82.4	82.9	83.1	83.2	83.3	83.5	83.6	83.7	84.0
≥ 3500	57.2	70.7	74.6	74.6	80.0	80.9	82.2	83.4	83.8	84.1	84.2	84.3	84.5	84.6	84.7	85.0
≥ 3000	59.4	73.3	77.6	77.6	83.3	84.3	85.7	87.0	87.5	87.8	87.9	87.9	88.1	88.3	88.4	88.7
≥ 2500	59.9	74.0	78.4	78.4	84.5	85.5	87.0	88.4	88.8	89.1	89.2	89.3	89.5	89.6	89.7	90.0
≥ 2000	60.5	75.0	79.7	79.7	86.1	87.2	88.8	90.3	90.8	91.1	91.3	91.3	91.5	91.6	91.8	92.1
≥ 1800	60.7	75.2	79.9	79.9	86.4	87.5	89.1	90.7	91.2	91.5	91.6	91.7	91.9	92.0	92.1	92.4
≥ 1500	61.3	76.0	81.1	81.1	87.8	89.1	90.8	92.4	92.9	93.3	93.4	93.4	93.6	93.8	93.9	94.2
≥ 1200	61.5	76.4	81.6	81.6	88.5	89.8	91.6	93.2	93.7	94.1	94.2	94.3	94.5	94.6	94.7	95.0
≥ 1000	61.9	76.8	82.2	82.2	89.2	90.5	92.4	94.0	94.5	94.9	95.1	95.1	95.3	95.4	95.5	95.8
≥ 900	61.9	76.9	82.3	82.3	89.4	90.7	92.6	94.3	94.8	95.1	95.3	95.4	95.6	95.7	95.8	96.1
≥ 800	62.0	77.1	82.6	82.6	89.8	91.2	93.2	94.9	95.4	95.8	96.0	96.0	96.2	96.4	96.5	96.8
≥ 700	62.2	77.4	82.9	82.9	90.3	91.7	93.7	95.5	96.0	96.3	96.5	96.6	96.8	96.9	97.0	97.4
≥ 600	62.4	77.6	83.1	83.1	90.6	92.1	94.3	96.1	96.6	96.9	97.1	97.2	97.4	97.5	97.6	98.0
≥ 500	62.5	77.8	83.4	83.4	91.0	92.5	94.7	96.6	97.1	97.5	97.7	97.7	98.0	98.1	98.2	98.6
≥ 400	62.6	77.8	83.4	83.4	91.1	92.6	95.0	96.9	97.4	97.8	98.1	98.1	98.4	98.5	98.6	99.0
≥ 300	62.6	77.9	83.5	83.5	91.3	92.9	95.3	97.2	97.8	98.3	98.6	98.7	99.1	99.2	99.4	99.8
≥ 200	62.6	77.9	83.5	83.5	91.3	92.9	95.3	97.2	97.8	98.3	98.6	98.7	99.1	99.2	99.4	99.8
≥ 100	62.6	77.9	83.5	83.5	91.3	92.9	95.3	97.2	97.8	98.3	98.7	98.7	99.1	99.2	99.4	100.0
≥ 0	62.6	77.9	83.5	83.5	91.3	92.9	95.3	97.3	97.9	98.4	98.7	98.8	99.1	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 6393



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

471227  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	46.1	55.8	60.7	67.7	63.3	63.7	63.7	63.8	63.8	63.8	63.8	63.8	64.0	64.0	64.0	64.0
≥ 20000	50.2	62.3	67.2	67.2	70.3	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.9	70.9	70.9	70.9
≥ 18000	51.2	63.2	68.2	68.2	71.2	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8
≥ 16000	51.2	64.1	69.1	69.1	72.1	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.7	72.7	72.7	72.7
≥ 14000	51.6	64.7	69.7	69.7	72.7	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3
≥ 12000	52.1	65.7	70.6	70.6	73.7	74.0	74.0	74.2	74.2	74.2	74.2	74.2	74.3	74.3	74.3	74.3
≥ 10000	54.4	68.1	73.2	73.2	76.2	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.8
≥ 9000	54.5	68.2	73.3	73.3	76.3	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.9	76.9	76.9	76.9
≥ 8000	56.1	70.3	75.4	75.4	78.6	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.2
≥ 7000	56.3	70.9	76.2	76.2	80.0	80.3	80.3	80.5	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6
≥ 6000	56.4	71.1	76.5	76.5	80.2	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.8	80.8	80.8	80.8
≥ 5000	56.8	71.7	77.1	77.1	80.8	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.4	81.4	81.4	81.4
≥ 4500	56.9	72.3	78.0	78.0	81.8	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.4	82.4
≥ 4000	58.5	74.3	80.2	80.2	84.0	84.3	84.3	84.5	84.5	84.7	84.7	84.7	84.8	84.8	84.8	84.8
≥ 3500	59.5	75.2	81.3	81.3	85.4	85.8	85.8	85.9	85.9	86.3	86.3	86.3	86.4	86.4	86.4	86.4
≥ 3000	61.2	77.1	83.3	83.3	87.4	87.7	87.9	88.0	88.0	88.3	88.3	88.3	88.5	88.5	88.5	88.5
≥ 2500	61.8	77.8	84.2	84.2	88.3	88.7	88.8	89.1	89.1	89.7	89.7	89.7	89.8	89.8	89.8	89.8
≥ 2000	62.1	78.4	84.8	84.8	89.7	90.0	90.2	90.4	90.4	91.0	91.0	91.0	91.1	91.1	91.1	91.1
≥ 1800	62.4	78.6	85.1	85.1	89.9	90.3	90.4	90.7	90.7	91.4	91.4	91.4	91.5	91.5	91.5	91.5
≥ 1500	63.1	79.4	85.8	85.8	90.9	91.3	91.4	91.6	91.6	92.4	92.4	92.4	92.5	92.5	92.5	92.5
≥ 1200	63.5	79.7	86.3	86.3	91.6	92.0	92.1	92.4	92.4	93.1	93.1	93.1	93.2	93.2	93.2	93.2
≥ 1000	64.1	80.2	86.9	86.9	92.5	92.8	93.2	93.4	93.4	94.2	94.2	94.2	94.3	94.3	94.3	94.3
≥ 900	64.1	80.3	87.3	87.3	92.6	93.0	93.3	93.6	93.6	94.3	94.3	94.3	94.4	94.4	94.4	94.4
≥ 800	64.2	80.6	87.3	87.3	92.8	93.2	93.6	93.8	93.8	94.5	94.5	94.5	94.7	94.7	94.7	94.7
≥ 700	64.2	80.8	87.6	87.6	93.3	93.7	94.1	94.9	94.9	95.6	95.6	95.6	95.8	95.8	95.8	95.8
≥ 600	64.2	81.4	88.2	88.2	94.1	94.4	94.8	95.9	95.9	96.6	96.6	96.6	96.7	96.7	96.7	96.7
≥ 500	64.3	81.6	88.6	88.6	94.5	95.1	95.5	96.6	96.6	97.3	97.3	97.3	97.5	97.5	97.5	97.5
≥ 400	64.4	81.8	89.0	89.0	95.0	95.6	96.4	97.6	97.6	98.3	98.3	98.3	98.4	98.4	98.4	98.4
≥ 300	64.4	81.8	89.0	89.0	95.0	95.6	96.6	98.2	98.2	98.9	98.9	99.0	99.2	99.2	99.2	99.2
≥ 200	64.4	81.8	89.0	89.0	95.0	95.6	96.6	98.2	98.2	99.2	99.2	99.3	99.4	99.4	99.4	99.5
≥ 100	64.4	81.8	89.0	89.0	95.0	95.6	96.6	98.2	98.2	99.2	99.2	99.3	99.4	99.4	99.4	99.5
≥ 0	64.4	81.8	89.0	89.0	95.0	95.6	96.6	98.2	98.2	99.2	99.2	99.3	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 824

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47172  
STATION

GSAN AB MO

STATION NAME

73-81

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	≥5/16	¾	≥0
NO CEILING	34.6	43.3	49.3	49.3	56.9	57.5	58.8	59.6	59.9	60.5	60.6	60.6	60.7	60.7	60.7	60.8
≥ 20000	38.3	48.4	54.8	54.8	62.9	63.5	64.9	65.8	66.0	66.7	66.9	66.9	67.0	67.0	67.0	67.1
IV 18000	38.7	49.3	56.0	56.0	64.5	65.1	66.5	67.3	67.6	68.3	68.4	68.4	68.6	68.6	68.6	68.7
IV 16000	38.7	49.3	56.0	56.0	64.6	65.2	66.6	67.6	67.8	68.6	68.7	68.7	68.8	68.8	68.8	68.9
IV 14000	38.3	49.6	56.5	56.5	65.1	65.7	67.1	68.1	68.3	69.0	69.2	69.2	69.3	69.3	69.3	69.4
IV 12000	39.4	50.2	57.1	57.1	65.7	66.3	67.7	68.7	68.9	69.6	69.8	69.8	69.9	69.9	69.9	70.0
IV 10000	42.0	53.4	60.8	60.8	69.9	70.5	71.9	72.9	73.1	73.9	74.0	74.0	74.1	74.1	74.1	74.2
IV 9000	42.4	53.9	61.3	61.3	70.4	71.0	72.4	73.4	73.6	74.3	74.5	74.5	74.6	74.6	74.6	74.7
IV 8000	44.3	56.6	64.1	64.1	73.1	73.7	75.2	76.1	76.4	77.1	77.2	77.2	77.3	77.3	77.3	77.5
IV 7000	44.8	57.1	64.6	64.6	73.7	74.3	75.9	77.1	77.3	78.1	78.2	78.2	78.3	78.3	78.3	78.4
IV 6000	44.9	57.5	64.9	64.9	74.2	74.8	76.4	77.6	77.8	78.6	78.7	78.7	78.8	78.8	78.8	78.9
IV 5000	45.2	58.1	65.7	65.7	75.1	75.7	77.2	78.4	78.7	79.4	79.5	79.5	79.6	79.6	79.6	79.8
IV 4500	45.7	59.0	66.9	66.9	76.3	76.9	78.4	79.6	79.9	80.6	80.7	80.7	80.8	80.8	80.8	81.0
IV 4000	46.1	59.9	68.1	68.1	77.5	78.1	79.9	81.1	81.3	82.0	82.2	82.2	82.3	82.3	82.3	82.4
IV 3500	46.5	60.2	68.6	68.6	78.0	78.6	80.4	81.6	81.8	82.5	82.7	82.7	82.8	82.8	82.8	82.9
IV 3000	49.7	63.1	71.8	71.8	81.8	82.8	85.1	86.3	86.5	87.2	87.3	87.3	87.5	87.5	87.5	87.6
IV 2500	49.3	63.9	72.7	72.7	82.7	83.6	86.0	87.2	87.5	88.2	88.3	88.3	88.4	88.4	88.4	88.6
IV 2000	49.5	64.2	73.0	73.0	83.1	84.1	86.5	88.0	88.2	88.9	89.0	89.0	89.2	89.2	89.2	89.3
IV 1800	49.8	64.5	73.3	73.3	83.4	84.3	86.7	88.2	88.4	89.2	89.3	89.3	89.4	89.4	89.4	89.5
IV 1500	51.0	65.7	74.5	74.5	85.2	86.1	88.6	90.0	90.2	91.1	91.2	91.2	91.3	91.3	91.3	91.4
IV 1200	51.7	66.7	75.8	75.8	86.7	87.7	90.1	91.6	91.8	92.7	92.8	92.8	93.0	93.0	93.0	93.1
IV 1000	51.8	67.0	76.5	76.5	87.6	88.6	91.1	92.5	92.8	93.7	93.9	93.9	94.1	94.1	94.1	94.2
IV 900	51.8	67.0	76.5	76.5	87.6	88.6	91.1	92.5	92.8	93.7	93.9	93.9	94.1	94.1	94.1	94.2
IV 800	51.8	67.2	76.7	76.7	88.2	89.3	91.8	93.3	93.5	94.5	94.6	94.6	94.8	94.8	94.8	94.9
IV 700	51.8	67.2	76.9	76.9	88.6	89.6	92.2	93.6	93.9	94.9	95.1	95.1	95.3	95.3	95.3	95.4
IV 600	51.9	67.3	77.0	77.0	89.3	90.4	92.9	94.3	94.6	95.8	95.9	95.9	96.1	96.1	96.1	96.3
IV 500	51.9	67.6	77.5	77.5	90.0	91.1	93.7	95.9	96.3	97.5	97.6	97.6	97.8	97.8	98.0	98.1
IV 400	51.9	67.6	77.5	77.5	90.4	91.4	94.1	96.3	96.6	98.0	98.1	98.1	98.3	98.3	98.4	98.6
IV 300	51.9	67.6	77.5	77.5	90.4	91.4	94.5	96.9	97.2	98.7	98.8	98.8	99.0	99.0	99.2	99.3
IV 200	51.9	67.6	77.5	77.5	90.4	91.4	94.5	96.9	97.2	98.8	98.9	98.9	99.3	99.3	99.4	99.6
IV 100	51.9	67.6	77.5	77.5	90.4	91.4	94.5	96.9	97.2	98.8	98.9	98.9	99.3	99.3	99.4	99.8
IV 0	51.9	67.6	77.5	77.5	90.4	91.4	94.5	96.9	97.2	98.8	98.9	98.9	99.3	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 830

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

401221  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAY  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1600-0800  
HOURS U.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	18.4	24.7	31.1	31.1	39.2	40.8	44.0	46.4	46.9	47.9	48.5	48.7	48.7	48.8	49.0	49.3
≥ 20000	21.2	29.6	36.9	36.9	46.5	48.7	52.4	54.9	55.4	56.5	57.2	57.5	57.6	57.7	57.9	58.6
≥ 18000	22.3	30.9	38.4	38.4	48.2	50.5	54.3	57.0	57.5	58.6	59.4	59.7	59.8	59.9	60.0	60.9
≥ 16000	22.5	31.1	38.6	38.6	48.5	50.8	54.6	57.2	57.7	58.8	59.7	59.9	60.0	60.2	60.3	61.1
≥ 14000	22.6	31.2	38.9	38.9	48.7	51.0	54.8	57.5	58.0	59.1	59.9	60.2	60.3	60.4	60.5	61.4
≥ 12000	22.7	32.0	39.7	39.7	49.9	52.3	56.0	58.7	59.2	60.3	61.1	61.4	61.6	61.8	62.0	62.9
≥ 10000	25.2	35.0	43.5	43.5	54.1	56.4	60.4	63.3	63.9	65.2	66.0	66.3	66.5	66.6	66.9	67.8
≥ 9000	25.5	35.7	44.2	44.2	54.8	57.1	61.5	64.4	65.0	66.3	67.1	67.4	67.6	67.7	68.0	68.9
≥ 8000	27.0	37.8	46.5	46.5	57.5	59.8	64.2	67.1	67.7	68.9	69.8	70.0	70.3	70.4	70.6	71.6
≥ 7000	27.6	38.7	47.5	47.5	59.0	61.3	65.7	68.6	69.2	70.4	71.6	71.9	72.1	72.2	72.5	73.4
≥ 6000	27.6	39.0	47.7	47.7	59.4	61.8	66.1	69.2	69.9	71.1	72.4	72.6	72.8	73.0	73.2	74.2
≥ 5000	28.4	40.1	49.1	49.1	61.0	63.3	67.8	70.9	71.6	72.8	74.1	74.3	74.5	74.7	74.9	75.9
≥ 4500	29.2	41.0	50.3	50.3	62.4	64.7	69.2	72.2	73.0	74.2	75.4	75.6	75.9	76.0	76.2	77.2
≥ 4000	30.5	43.1	52.4	52.4	65.0	67.4	72.0	75.2	76.0	77.2	78.4	78.7	79.0	79.2	79.4	80.4
≥ 3500	31.3	44.2	53.6	53.6	66.3	68.6	73.2	76.4	77.2	78.4	79.7	79.9	80.3	80.4	80.6	81.6
≥ 3000	32.8	46.2	55.8	55.8	69.1	71.4	76.1	79.8	80.6	82.0	83.2	83.4	83.8	83.9	84.2	85.1
≥ 2500	33.0	46.7	56.3	56.3	69.7	72.0	76.9	80.5	81.5	82.9	84.2	84.4	84.8	84.9	85.1	86.1
≥ 2000	33.6	47.3	57.0	57.0	70.4	72.7	77.6	81.4	82.5	83.9	85.3	85.5	85.9	86.0	86.2	87.2
≥ 1800	33.7	47.4	57.1	57.1	70.5	72.8	77.7	81.5	82.6	84.0	85.4	85.6	86.0	86.1	86.4	87.3
≥ 1500	34.7	48.4	58.2	58.2	71.9	74.2	79.0	82.8	83.9	85.4	86.7	87.0	87.3	87.5	87.7	88.7
≥ 1200	34.8	49.0	59.3	59.3	73.3	75.8	80.8	84.5	85.6	87.1	88.4	88.7	89.0	89.2	89.4	90.4
≥ 1000	35.4	49.8	60.7	60.7	75.2	77.7	82.7	86.6	87.7	89.2	90.5	90.7	91.1	91.2	91.5	92.4
≥ 900	35.6	49.9	60.8	60.8	75.4	78.0	82.9	86.8	87.9	89.4	90.7	91.0	91.4	91.5	91.7	92.7
≥ 800	35.6	49.9	60.8	60.8	75.6	78.2	83.3	87.2	88.3	89.8	91.1	91.4	91.7	91.8	92.1	93.1
≥ 700	35.8	50.2	61.0	61.0	76.1	78.9	84.0	88.1	89.2	90.6	92.0	92.2	92.6	92.7	92.9	93.9
≥ 600	35.9	50.2	61.1	61.1	76.2	79.2	84.3	88.4	89.5	91.0	92.3	92.6	92.9	93.1	93.3	94.3
≥ 500	35.9	50.7	61.9	61.9	77.8	80.8	86.0	90.5	91.6	93.2	94.5	95.0	95.5	95.6	95.9	96.8
≥ 400	35.9	50.7	61.9	61.9	78.0	80.9	86.4	91.0	92.1	93.8	95.1	95.7	96.2	96.3	97.0	97.9
≥ 300	35.9	50.7	61.9	61.9	78.0	80.9	86.4	91.1	92.2	93.9	95.2	96.0	96.6	96.7	97.4	98.4
≥ 200	35.9	50.7	61.9	61.9	78.0	80.9	86.4	91.1	92.2	94.0	95.5	96.2	97.0	97.2	97.9	99.5
≥ 100	35.9	50.7	61.9	61.9	78.0	80.9	86.4	91.1	92.2	94.0	95.6	96.5	97.2	97.4	98.3	100.0
≥ 0	35.9	50.7	61.9	61.9	78.0	80.9	86.4	91.1	92.2	94.0	95.6	96.5	97.2	97.4	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 821

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

41021 OSAN AB KO

73-81

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

5900-1100  
HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING	37.5	48.0	50.1	50.1	51.8	51.8	52.2	52.8	52.8	52.9	52.9	52.9	52.9	53.1	53.1	53.1
≥ 20000	43.5	56.4	58.8	58.8	60.9	61.0	61.5	62.2	62.2	62.3	62.3	62.3	62.3	62.5	62.5	62.5
≥ 18000	44.3	57.6	61.1	60.1	62.3	62.5	63.0	63.7	63.7	63.8	63.8	63.8	63.8	63.9	63.9	63.9
≥ 16000	44.4	57.8	61.6	60.6	62.8	63.0	63.4	64.2	64.2	64.3	64.3	64.3	64.3	64.4	64.4	64.4
≥ 14000	45.0	58.9	61.7	61.7	63.9	64.1	64.5	65.3	65.3	65.4	65.4	65.4	65.4	65.5	65.5	65.5
≥ 12000	45.8	59.9	63.0	63.0	65.4	65.5	66.0	66.7	66.7	66.9	66.9	66.9	66.9	67.0	67.0	67.0
≥ 10000	48.5	63.0	66.4	66.4	69.2	69.3	69.8	70.5	70.5	70.7	70.7	70.7	70.7	70.8	70.8	70.8
≥ 9000	48.5	63.6	67.2	67.2	70.2	70.3	70.8	71.5	71.5	71.6	71.6	71.6	71.6	71.8	71.8	71.8
≥ 8000	51.6	67.5	71.5	71.5	74.7	74.8	75.3	76.2	76.2	76.3	76.3	76.3	76.3	76.4	76.4	76.4
≥ 7000	52.6	68.8	72.9	72.9	76.4	76.7	77.3	78.2	78.2	78.4	78.4	78.4	78.4	78.5	78.5	78.5
≥ 6000	52.6	69.1	73.1	73.1	76.8	77.0	77.6	78.6	78.6	78.7	78.7	78.7	78.7	78.9	78.9	78.9
≥ 5000	53.4	70.8	74.8	74.8	78.5	78.7	79.3	80.3	80.3	80.4	80.4	80.4	80.4	80.6	80.6	80.6
≥ 4500	53.9	71.3	75.3	75.3	79.0	79.2	79.8	80.8	80.8	80.9	80.9	80.9	80.9	81.1	81.1	81.1
≥ 4000	55.0	73.2	77.3	77.3	81.2	81.4	82.0	83.0	83.0	83.1	83.1	83.1	83.1	83.3	83.3	83.3
≥ 3500	55.1	73.6	77.6	77.6	81.5	81.8	82.4	83.4	83.4	83.5	83.5	83.5	83.5	83.6	83.6	83.6
≥ 3000	56.7	75.8	79.8	79.8	84.5	85.0	85.6	86.7	86.7	86.8	86.8	86.8	86.8	86.9	86.9	86.9
≥ 2500	57.9	77.5	81.5	81.5	86.3	86.8	87.4	88.5	88.6	88.8	88.8	88.8	88.8	88.9	88.9	88.9
≥ 2000	59.0	78.9	83.1	83.1	87.9	88.4	89.0	90.1	90.2	90.3	90.3	90.3	90.3	90.5	90.5	90.5
≥ 1800	59.2	79.1	83.4	83.4	88.1	88.6	89.2	90.3	90.5	90.6	90.6	90.6	90.6	90.7	90.7	90.7
≥ 1500	60.1	80.7	85.2	85.2	90.2	90.8	91.4	92.5	92.7	92.8	92.8	92.8	92.8	92.9	92.9	92.9
≥ 1200	60.3	81.1	85.7	85.7	90.7	91.3	91.9	93.2	93.3	93.4	93.4	93.4	93.4	93.5	93.5	93.5
≥ 1000	61.0	81.9	86.7	86.7	92.1	92.7	93.3	94.6	94.7	95.0	95.0	95.0	95.0	95.1	95.1	95.1
≥ 900	61.0	82.0	86.8	86.8	92.2	92.8	93.4	94.7	94.9	95.1	95.1	95.1	95.1	95.2	95.2	95.2
≥ 800	61.0	82.0	86.9	86.9	92.5	93.3	93.9	95.2	95.4	95.6	95.6	95.6	95.6	95.7	95.7	95.7
≥ 700	61.4	82.6	87.7	87.7	93.4	94.3	95.4	96.8	96.9	97.2	97.2	97.2	97.2	97.3	97.3	97.3
≥ 600	61.4	82.6	87.7	87.7	93.5	94.4	95.6	97.1	97.3	97.6	97.6	97.6	97.6	97.8	97.8	97.8
≥ 500	61.7	83.1	88.6	88.6	94.9	95.7	97.1	98.7	98.9	99.4	99.4	99.4	99.4	99.8	99.8	99.8
≥ 400	61.7	83.1	88.6	88.6	95.0	95.8	97.2	98.8	99.0	99.5	99.5	99.5	99.5	99.9	99.9	99.9
≥ 300	61.7	83.1	88.6	88.6	95.0	95.8	97.2	98.9	99.1	99.6	99.6	99.6	99.6	100.0	100.0	100.0
≥ 200	61.7	83.1	88.6	88.6	95.0	95.8	97.2	98.9	99.1	99.6	99.6	99.6	99.6	100.0	100.0	100.0
≥ 100	61.7	83.1	88.6	88.6	95.0	95.8	97.2	98.9	99.1	99.6	99.6	99.6	99.6	100.0	100.0	100.0
≥ 0	61.7	83.1	88.6	88.6	95.0	95.8	97.2	98.9	99.1	99.6	99.6	99.6	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 818

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

471.2  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (EST.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	43.3	53.6	54.1	54.1	54.7	54.7	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 20000	52.6	66.5	67.1	67.1	68.3	68.3	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 18000	52.8	67.1	68.7	68.3	69.2	69.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 16000	53.7	67.4	68.4	68.4	69.6	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 14000	54.2	68.6	69.6	69.6	70.9	70.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 12000	55.2	70.3	71.3	71.3	72.6	72.6	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 10000	57.2	72.7	73.8	73.8	75.4	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 9000	57.5	73.0	74.0	74.0	75.6	75.6	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 8000	60.6	76.7	77.8	77.8	79.3	79.3	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 7000	63.1	79.4	80.6	80.6	82.6	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 6000	63.3	79.8	81.1	81.1	83.2	83.2	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 5000	64.3	81.9	83.2	83.2	85.2	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 4500	64.3	81.9	83.2	83.2	85.2	85.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥ 4000	65.4	83.5	84.9	84.9	87.1	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 3500	66.7	84.5	85.8	85.8	88.3	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 3000	68.0	87.3	88.6	88.6	91.8	91.8	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2500	68.5	87.9	89.4	89.4	92.8	92.9	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 2000	69.1	89.1	90.6	90.6	94.1	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1800	69.4	89.3	90.9	90.9	94.5	94.6	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1500	69.7	89.7	91.6	91.6	95.7	95.8	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1200	69.8	89.8	91.9	91.9	96.3	96.4	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1000	70.6	90.7	92.9	92.9	97.2	97.4	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 900	70.6	91.0	93.1	93.1	97.6	97.7	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	70.7	91.1	93.3	93.3	97.7	97.8	98.4	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700	70.8	91.2	93.5	93.5	98.0	98.1	98.8	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600	70.8	91.3	93.6	93.6	98.1	98.2	98.9	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	70.9	91.8	94.2	94.2	98.7	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	70.9	91.8	94.2	94.2	98.7	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	70.9	91.8	94.2	94.2	98.7	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	70.9	91.8	94.2	94.2	98.7	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	70.9	91.8	94.2	94.2	98.7	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	70.9	91.8	94.2	94.2	98.7	98.8	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

832

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

42122  
STATION

USAN AB KO

STATION NAME

73-81

YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS - 151

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	45.3	56.0	55.5	56.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 20000	55.5	73.3	70.8	70.8	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 18000	56.1	71.8	72.5	72.5	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 16000	56.1	71.9	72.6	72.6	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 14000	56.3	72.7	73.6	73.6	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 12000	57.3	73.6	74.4	74.4	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 10000	59.3	75.7	76.6	76.6	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 9000	59.8	76.2	77.0	77.0	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 8000	62.6	79.4	80.3	80.3	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 7000	64.7	81.1	82.9	82.9	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 6000	65.7	83.1	84.0	84.0	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 5000	67.0	85.2	86.1	86.1	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 4500	67.2	85.4	86.4	86.4	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 4000	68.1	86.7	87.9	87.9	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
≥ 3500	68.5	87.2	88.4	88.4	89.4	89.5	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 3000	70.1	90.0	91.4	91.4	93.1	93.2	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 2500	70.5	90.4	92.0	92.0	94.0	94.1	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 2000	70.8	91.1	92.7	92.7	94.9	95.0	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1800	70.8	91.3	92.8	92.8	95.1	95.2	95.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1500	71.1	91.5	93.1	93.1	95.5	95.6	95.8	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1200	71.7	92.2	93.8	93.8	96.5	96.7	96.9	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000	71.8	92.6	94.3	94.3	97.5	97.7	98.0	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	71.8	92.6	94.3	94.3	97.5	97.7	98.0	98.3	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	71.9	92.7	94.5	94.5	97.7	98.0	98.2	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 700	72.2	93.1	94.9	94.9	98.3	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	72.2	93.1	94.9	94.9	98.3	98.6	98.8	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 500	72.2	93.1	94.9	94.9	98.4	98.7	98.9	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	72.2	93.1	94.9	94.9	98.4	98.7	98.9	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	72.2	93.1	94.9	94.9	98.4	98.7	98.9	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	72.2	93.1	94.9	94.9	98.4	98.7	98.9	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	72.2	93.1	94.9	94.9	98.4	98.7	98.9	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	72.2	93.1	94.9	94.9	98.4	98.7	98.9	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

836

USAF ETAC

FORM  
JUL 64

3-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4112  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1836-2000  
PERIOD

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ .	≥ 0
NO CEILING	46.5	56.7	55.2	56.2	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 20000	55.6	69.9	71.4	70.4	71.0	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
≥ 18000	57.6	71.8	72.6	72.6	73.2	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 16000	57.6	72.0	72.7	72.7	73.3	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 14000	59.1	72.6	73.3	73.3	73.9	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 12000	59.8	74.5	75.2	75.2	75.8	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 10000	61.7	76.5	77.5	77.5	78.1	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥ 9000	61.9	76.7	77.6	77.6	78.2	78.3	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 8000	65.2	80.3	81.2	81.2	81.8	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 7000	66.4	81.7	83.0	83.0	83.6	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 6000	66.4	81.7	83.0	83.0	83.6	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 5000	68.1	84.5	85.8	85.8	86.4	86.6	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 4500	68.5	84.8	86.2	86.2	86.8	87.0	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 4000	69.6	86.2	88.0	88.0	88.6	88.8	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3500	69.6	86.2	88.0	88.0	88.7	88.9	89.0	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000	70.8	88.1	90.3	90.3	91.2	91.5	91.9	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2500	71.0	88.8	91.1	91.1	93.1	93.4	93.9	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 2000	72.1	89.9	92.3	92.3	94.6	94.9	95.5	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1800	72.1	89.9	92.3	92.3	94.6	94.9	95.5	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1500	72.3	90.1	92.7	92.7	95.1	95.4	96.1	96.8	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1200	72.4	90.3	92.8	92.8	95.3	95.7	96.4	97.1	97.4	97.5	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1000	73.3	91.0	93.5	93.5	96.3	96.6	97.4	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900	73.3	91.0	93.5	93.5	96.3	96.6	97.4	98.1	98.3	98.4	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	73.2	91.1	93.6	93.6	96.8	97.1	97.8	98.7	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700	73.3	91.2	93.7	93.7	97.0	97.4	98.1	98.9	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	73.3	91.2	93.7	93.7	97.0	97.4	98.1	98.9	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	73.3	91.2	94.0	94.0	97.2	97.6	98.4	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	73.3	91.2	94.0	94.0	97.2	97.6	98.4	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	73.3	91.2	94.0	94.0	97.2	97.6	98.4	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	73.3	91.2	94.0	94.0	97.2	97.6	98.4	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	73.3	91.2	94.0	94.0	97.2	97.6	98.4	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	73.3	91.2	94.0	94.0	97.2	97.6	98.4	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 831



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

411200 USAN AB KO

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING	47.2	57.8	58.5	58.5	58.8	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 20000	54.6	68.4	69.3	69.3	72.	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 18000	55.7	77.5	71.4	71.4	72.2	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 16000	55.7	73.7	71.6	71.6	72.5	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 14000	55.9	71.7	71.8	71.8	72.7	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 12000	56.8	72.1	72.9	72.9	73.8	73.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 10000	60.1	76.0	76.9	76.9	77.7	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 9000	60.2	76.1	77.0	77.0	77.8	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 8000	62.8	78.8	79.7	79.7	80.5	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 7000	63.3	79.6	80.7	80.7	81.6	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 6000	63.3	79.6	80.7	80.7	81.6	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 5000	64.4	81.2	82.5	82.5	83.5	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 4500	64.5	81.3	82.6	82.6	83.7	83.8	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4000	67.2	84.5	85.9	85.9	87.0	87.1	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3500	67.3	84.6	86.2	86.2	87.8	87.9	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 3000	69.2	86.5	88.1	88.1	90.1	90.2	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 2500	70.1	88.0	89.7	89.7	91.9	92.0	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 2000	71.1	89.0	90.7	90.7	93.5	93.6	94.1	94.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1800	71.2	89.1	90.8	90.8	93.6	93.8	94.2	94.6	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1500	72.2	90.5	92.5	92.5	95.8	96.0	96.5	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1200	72.5	90.7	92.8	92.8	96.1	96.2	96.8	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000	72.7	90.9	93.0	93.0	96.5	96.6	97.3	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 900	72.7	90.9	93.0	93.0	96.5	96.6	97.3	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 800	72.7	90.9	93.0	93.0	96.5	96.6	97.3	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700	72.7	91.2	93.4	93.4	96.9	97.1	97.8	98.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 600	72.7	91.4	93.6	93.6	97.2	97.3	98.3	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	72.8	91.6	93.8	93.8	97.3	97.4	98.4	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	72.8	91.6	93.8	93.8	97.3	97.6	98.5	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	72.8	91.6	93.8	93.8	97.4	97.7	98.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	72.8	91.6	93.8	93.8	97.4	97.7	98.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	72.8	91.6	93.8	93.8	97.4	97.7	98.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	72.8	91.6	93.8	93.8	97.4	97.7	98.7	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

817

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
ADN WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 47112 OSAN AB KO

73-81

MAY  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1151

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	39.9	49.4	52.1	52.1	54.8	55.1	55.8	56.3	56.3	56.6	56.7	56.7	56.7	56.7	56.8	56.8
≥ 20000	46.7	59.0	61.9	61.9	65.2	65.6	66.4	66.9	67.0	67.2	67.3	67.4	67.4	67.5	67.5	67.6
IV 18000	47.3	60.3	63.4	63.4	66.8	67.2	68.0	68.5	68.6	68.9	69.0	69.0	69.1	69.1	69.1	69.2
IV 16000	47.4	60.6	63.7	63.7	67.1	67.5	68.3	68.9	69.0	69.2	69.3	69.3	69.4	69.4	69.4	69.6
IV 14000	47.8	61.2	64.4	64.4	67.8	68.2	69.0	69.6	69.6	69.9	70.0	70.0	70.1	70.1	70.1	70.3
IV 12000	48.7	62.3	65.6	65.6	69.0	69.5	70.2	70.8	70.9	71.1	71.2	71.3	71.3	71.4	71.4	71.5
IV 10000	51.1	65.1	68.6	68.6	72.2	72.7	73.5	74.1	74.2	74.4	74.5	74.6	74.7	74.7	74.7	74.8
IV 9000	51.3	65.4	69.0	69.0	72.6	73.1	73.9	74.5	74.6	74.9	75.0	75.0	75.1	75.1	75.2	75.3
IV 8000	53.8	68.5	72.1	72.1	75.8	76.3	77.1	77.7	77.8	78.1	78.2	78.3	78.3	78.3	78.4	78.5
IV 7000	54.9	69.8	73.6	73.6	77.6	78.0	78.9	79.6	79.7	79.9	80.1	80.1	80.2	80.2	80.3	80.4
IV 6000	55.1	70.1	73.9	73.9	78.0	78.5	79.3	80.0	80.1	80.4	80.5	80.6	80.6	80.7	80.7	80.8
IV 5000	56.0	71.7	75.6	75.6	79.7	80.2	81.1	81.7	81.9	82.1	82.3	82.3	82.4	82.4	82.4	82.6
IV 4500	55.3	72.2	76.1	76.1	80.3	80.8	81.7	82.3	82.5	82.7	82.9	82.9	83.0	83.0	83.0	83.2
IV 4000	57.6	74.0	78.1	78.1	82.4	82.9	83.8	84.6	84.7	85.0	85.2	85.2	85.3	85.3	85.3	85.5
IV 3500	58.7	74.5	78.7	78.7	83.2	83.7	84.6	85.4	85.6	85.9	86.0	86.0	86.1	86.2	86.2	86.3
IV 3000	59.8	76.8	81.2	81.2	86.1	86.7	87.8	88.7	88.8	89.2	89.3	89.3	89.4	89.5	89.5	89.6
IV 2500	60.3	77.7	82.1	82.1	87.4	88.0	89.1	90.0	90.2	90.5	90.7	90.7	90.8	90.8	90.9	91.0
IV 2000	61.0	78.5	83.1	83.1	88.5	89.2	90.4	91.3	91.5	91.9	92.1	92.1	92.2	92.3	92.3	92.4
IV 1800	61.1	78.7	83.2	83.2	88.7	89.3	90.6	91.5	91.7	92.1	92.3	92.4	92.4	92.5	92.5	92.6
IV 1500	61.8	79.5	84.2	84.2	90.0	90.7	91.9	92.9	93.1	93.6	93.8	93.8	93.9	93.9	93.9	94.1
IV 1200	62.1	80.0	84.8	84.8	90.8	91.5	92.8	93.8	94.0	94.4	94.6	94.7	94.8	94.8	94.8	95.0
IV 1000	62.6	80.6	85.6	85.6	91.9	92.5	93.9	94.9	95.2	95.7	95.9	95.9	96.0	96.0	96.1	96.2
IV 900	62.6	80.6	85.7	85.7	92.0	92.6	94.0	95.0	95.3	95.8	96.0	96.0	96.1	96.1	96.2	96.3
IV 800	62.7	80.7	85.8	85.8	92.3	92.9	94.3	95.4	95.7	96.1	96.3	96.4	96.5	96.5	96.5	96.7
IV 700	62.8	81.0	86.1	86.1	92.7	93.5	94.9	96.2	96.4	97.0	97.2	97.2	97.3	97.3	97.3	97.5
IV 600	62.8	81.1	86.3	86.3	93.0	93.7	95.2	96.6	96.8	97.4	97.6	97.6	97.7	97.7	97.8	97.9
IV 500	62.9	81.4	86.7	86.7	93.6	94.4	96.0	97.5	97.8	98.4	98.6	98.6	98.8	98.8	98.9	99.0
IV 400	62.9	81.4	86.7	86.7	93.8	94.6	96.2	97.8	98.1	98.7	98.9	98.9	99.1	99.1	99.2	99.3
IV 300	62.9	81.4	86.7	86.7	93.8	94.6	96.3	98.0	98.3	98.9	99.1	99.2	99.3	99.4	99.5	99.6
IV 200	62.9	81.4	86.7	86.7	93.8	94.6	96.3	98.0	98.3	98.9	99.2	99.3	99.5	99.5	99.6	99.8
IV 100	62.9	81.4	86.7	86.7	93.8	94.6	96.3	98.0	98.3	98.9	99.2	99.3	99.5	99.5	99.6	99.9
IV 0	62.9	81.4	86.7	86.7	93.8	94.6	96.3	98.0	98.3	98.9	99.2	99.3	99.5	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 6609

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

41121 CSAN AB KO

73-81

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS 1-1

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥¾	≥½	≥¼	≥0
NO CEILING	28.0	35.8	47.3	40.3	43.4	43.4	44.3	44.8	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.2
≥ 20000	33.4	42.9	47.9	47.9	52.2	52.4	53.2	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.2
≥ 18000	33.8	43.3	48.3	48.3	52.6	52.7	53.6	54.2	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.6
≥ 16000	33.8	43.3	48.3	48.3	52.6	52.7	53.6	54.2	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.6
≥ 14000	34.5	44.1	49.0	49.0	53.3	53.5	54.3	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.3
≥ 12000	36.4	46.3	51.6	51.6	55.9	56.1	56.9	57.5	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.9
≥ 10000	38.6	49.1	54.8	54.8	59.7	59.8	60.9	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.9
≥ 9000	39.2	49.9	55.6	55.6	60.6	60.8	62.0	62.6	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.0
≥ 8000	41.3	52.8	58.8	58.8	64.9	65.0	66.5	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.5
≥ 7000	42.3	54.0	60.3	60.3	66.5	66.6	68.1	68.7	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.2
≥ 6000	42.6	54.5	60.8	60.8	67.1	67.2	68.7	69.3	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.9
≥ 5000	43.2	55.3	61.6	61.6	67.9	68.1	69.6	70.2	70.4	70.7	70.7	70.7	70.7	70.7	70.7	70.8
≥ 4500	43.9	56.1	62.6	62.6	68.9	69.1	70.5	71.2	71.4	71.7	71.7	71.7	71.7	71.7	71.7	71.8
≥ 4000	46.0	58.3	65.0	65.0	71.7	71.8	73.6	74.3	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.9
≥ 3500	47.0	59.7	66.5	66.5	74.0	74.1	76.0	76.6	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.2
≥ 3000	48.4	61.8	69.4	69.4	77.2	77.5	79.5	80.1	80.3	80.6	80.6	80.6	80.6	80.6	80.6	80.7
≥ 2500	49.1	62.9	71.7	70.7	78.6	78.8	81.2	82.1	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.7
≥ 2000	49.8	64.0	71.9	71.9	80.2	80.4	82.9	83.8	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.4
≥ 1800	50.1	64.4	72.6	72.6	81.1	81.3	83.8	84.7	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.3
≥ 1500	52.0	66.6	75.2	75.2	84.7	85.1	87.7	88.7	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.4
≥ 1200	52.8	67.6	76.7	76.7	86.8	87.3	90.0	91.0	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.6
≥ 1000	53.2	68.2	77.5	77.5	88.5	89.0	92.0	93.2	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.8
≥ 900	53.5	68.6	78.1	78.1	89.4	89.9	92.8	94.2	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.8
≥ 800	54.5	69.7	79.2	79.2	90.5	91.1	94.2	95.5	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.2
≥ 700	54.8	70.0	79.6	79.6	91.0	91.6	94.7	96.0	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.7
≥ 600	54.8	70.0	79.6	79.6	91.0	91.6	94.7	96.0	96.3	96.5	96.7	96.7	96.7	96.7	96.7	96.8
≥ 500	55.2	70.4	80.0	80.0	91.8	92.6	95.9	97.4	97.9	98.1	98.3	98.3	98.3	98.3	98.3	98.4
≥ 400	55.2	70.4	80.0	80.0	92.2	93.1	96.7	98.4	98.9	99.1	99.3	99.3	99.3	99.3	99.3	99.5
≥ 300	55.2	70.4	80.1	80.1	92.6	93.4	97.0	98.8	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.9
≥ 200	55.2	70.4	80.1	80.1	92.6	93.4	97.0	98.9	99.4	99.6	99.8	99.8	99.8	99.8	99.8	100.0
≥ 100	55.2	70.4	80.1	80.1	92.6	93.4	97.0	98.9	99.4	99.6	99.8	99.8	99.8	99.8	99.8	100.0
≥ 0	55.2	70.4	80.1	80.1	92.6	93.4	97.0	98.9	99.4	99.6	99.8	99.8	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 808

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

47122 OSAN AB KO

73-81

JUN

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

C300-0500  
HOURS 11-17

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.5	≥.4	≥.3	≥.25	≥.2	≥.1
NO CEILING	18.3	22.1	26.8	26.8	32.6	33.0	35.6	36.8	36.9	37.0	37.2	37.7	37.9	38.7	38.3	38.8
≥ 20000	19.9	24.7	30.6	30.6	37.8	38.3	41.2	42.8	43.0	43.2	43.3	44.0	44.3	44.4	44.7	45.3
≥ 18000	20.0	25.2	31.4	31.4	38.6	39.1	42.2	44.0	44.1	44.3	44.4	45.1	45.4	45.6	45.8	46.4
≥ 16000	20.0	25.2	31.4	31.4	38.6	39.1	42.2	44.0	44.1	44.3	44.4	45.1	45.4	45.6	45.8	46.4
≥ 14000	20.7	26.0	32.3	32.3	39.6	40.1	43.2	44.9	45.1	45.3	45.4	46.0	46.4	46.5	46.8	47.4
≥ 12000	22.3	27.3	34.2	34.2	41.6	42.2	45.3	47.0	47.2	47.4	47.5	48.1	48.5	48.6	49.0	49.6
≥ 10000	23.7	29.4	36.7	36.7	45.2	45.8	49.3	51.1	51.2	51.5	51.6	52.2	52.6	52.7	53.1	53.7
≥ 9000	24.1	29.9	37.2	37.2	45.8	46.4	49.9	51.7	51.9	52.1	52.2	52.8	53.2	53.3	53.7	54.3
≥ 8000	25.7	32.1	40.1	40.1	49.3	50.1	54.0	55.8	55.9	56.2	56.3	56.9	57.3	57.4	57.8	58.4
≥ 7000	26.3	33.3	41.4	41.4	51.1	52.0	55.8	57.7	57.8	58.0	58.1	58.8	59.1	59.3	59.6	60.2
≥ 6000	25.3	33.3	41.4	41.4	51.1	52.0	55.8	57.7	57.8	58.0	58.1	58.8	59.1	59.3	59.6	60.2
≥ 5000	26.7	34.1	42.5	42.5	52.7	53.6	57.4	59.3	59.4	59.8	59.9	60.5	60.9	61.0	61.4	62.0
≥ 4500	27.3	34.2	42.6	42.6	52.8	53.7	57.5	59.5	59.6	60.0	60.1	60.7	61.1	61.2	61.6	62.2
≥ 4000	28.5	36.0	44.9	44.9	56.3	57.3	61.2	63.6	63.7	64.2	64.3	64.9	65.3	65.4	65.8	66.4
≥ 3500	29.1	36.8	45.8	45.8	57.5	58.5	62.4	65.2	65.3	65.8	65.9	66.5	66.9	67.0	67.4	68.0
≥ 3000	31.1	39.3	49.5	49.5	62.0	63.0	67.0	70.0	70.1	71.0	71.1	71.7	72.1	72.2	72.6	73.2
≥ 2500	31.6	40.0	50.6	50.6	63.2	64.3	68.5	71.7	71.9	72.7	73.7	73.6	74.0	74.1	74.4	75.1
≥ 2000	32.1	40.7	52.0	52.0	65.3	66.4	70.7	74.3	74.6	75.4	75.7	76.3	76.7	76.8	77.2	77.8
≥ 1800	32.5	41.1	52.3	52.3	65.9	67.0	71.4	74.9	75.2	76.0	76.3	76.9	77.3	77.4	77.8	78.4
≥ 1500	34.4	43.1	54.4	54.4	68.8	69.9	74.3	77.9	78.1	79.0	79.3	79.9	80.4	80.5	81.0	81.6
≥ 1200	34.7	43.6	55.3	55.3	70.1	71.2	76.4	80.0	80.2	81.2	81.6	82.2	82.7	82.8	83.3	84.0
≥ 1000	35.4	44.9	56.9	56.9	72.0	73.2	78.9	82.6	82.8	83.8	84.2	84.8	85.3	85.4	85.9	86.5
≥ 900	35.8	45.7	57.7	57.7	73.1	74.3	80.0	83.7	84.0	84.9	85.3	85.9	86.4	86.5	87.0	87.7
≥ 800	36.2	46.5	58.5	58.5	74.7	76.3	82.5	86.2	86.5	87.5	87.9	88.5	89.0	89.1	89.6	90.2
≥ 700	36.4	47.0	59.1	59.1	76.2	77.9	84.2	87.9	88.3	89.4	89.8	90.4	90.9	91.0	91.5	92.1
≥ 600	36.4	47.3	59.1	59.1	76.8	78.5	85.1	88.8	89.1	90.2	90.6	91.2	91.7	91.9	92.3	93.0
≥ 500	37.2	47.8	60.1	60.1	78.3	80.0	86.8	90.7	91.1	92.2	92.6	93.2	93.7	93.8	94.3	94.9
≥ 400	37.2	47.9	60.2	60.2	78.9	80.6	88.0	92.1	92.6	93.6	94.0	94.6	95.1	95.2	95.7	96.7
≥ 300	37.2	47.9	60.2	60.2	79.3	81.3	88.4	92.5	93.1	94.4	94.8	95.3	95.9	96.0	96.4	97.4
≥ 200	37.2	47.9	60.2	60.2	79.4	81.1	88.5	92.6	93.5	94.9	95.3	95.7	96.2	96.3	96.7	97.5
≥ 100	37.2	47.9	60.2	60.2	79.4	81.1	88.5	92.6	93.5	94.9	95.3	95.7	96.2	96.3	96.7	97.5
≥ 0	37.2	47.9	60.2	60.2	79.4	81.1	88.5	92.6	93.5	94.9	95.3	95.7	96.2	96.3	96.7	97.5

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

44122  
STATION

USAN AB KO  
STATION NAME

73-81  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	11.2	14.8	17.4	17.4	21.8	22.6	25.3	27.3	28.2	28.4	28.9	29.5	29.8	29.9	30.0	30.8
≥ 20000	13.0	17.3	21.3	21.3	26.6	27.6	30.7	33.7	34.7	35.1	35.8	36.6	37.0	37.1	37.5	38.4
IV 18000	13.1	17.6	21.5	21.5	26.8	27.8	30.9	34.1	35.1	35.5	36.2	37.0	37.3	37.5	37.8	38.8
IV 16000	13.3	17.8	21.8	21.8	27.2	28.2	31.3	34.6	35.6	36.0	36.7	37.5	37.8	37.9	38.3	39.3
IV 14000	13.3	17.8	21.9	21.9	27.4	28.6	31.6	35.0	36.0	36.3	37.2	37.9	38.3	38.4	38.8	39.8
IV 12000	14.2	19.0	23.7	23.7	29.4	30.8	33.9	37.3	38.4	38.8	39.7	40.4	40.8	40.9	41.3	42.3
IV 10000	15.3	20.6	25.8	25.8	32.5	34.2	37.5	40.9	42.0	42.6	43.5	44.3	44.6	44.7	45.1	46.1
IV 9000	15.7	21.1	26.3	26.3	33.4	35.1	38.6	42.0	43.1	43.8	44.6	45.4	45.7	45.9	46.2	47.2
IV 8000	17.2	24.2	30.3	30.3	37.9	39.8	43.9	47.5	48.6	49.2	50.1	50.8	51.2	51.3	51.7	52.7
IV 7000	18.2	25.6	31.9	31.9	40.0	41.9	46.1	49.7	50.8	51.4	52.3	53.0	53.4	53.5	53.9	54.9
IV 6000	18.4	26.0	32.6	32.6	40.8	42.6	46.8	50.4	51.5	52.2	53.0	53.8	54.1	54.3	54.6	55.6
IV 5000	19.2	26.7	33.5	33.5	42.0	43.9	48.1	51.7	52.8	53.4	54.5	55.3	55.6	55.7	56.1	57.1
IV 4500	19.7	27.2	34.0	34.0	42.5	44.4	48.7	52.3	53.4	54.0	55.1	55.9	56.2	56.4	56.7	57.7
IV 4000	21.0	29.3	36.5	36.5	45.7	47.7	52.2	56.1	57.4	58.0	59.1	60.1	60.4	60.6	60.9	61.9
IV 3500	21.5	29.8	37.2	37.2	47.0	48.9	54.0	58.0	59.3	60.0	61.1	62.1	62.4	62.5	62.9	63.9
IV 3000	23.0	31.9	39.8	39.8	50.4	53.0	58.7	63.3	64.6	65.5	66.6	67.6	68.4	68.5	68.9	69.8
IV 2500	23.1	32.4	40.7	40.7	51.7	54.3	60.1	64.8	66.1	67.0	68.4	69.3	70.1	70.2	70.6	71.6
IV 2000	24.0	33.6	42.5	42.5	54.0	56.7	62.7	67.7	69.2	70.2	71.6	72.6	73.3	73.4	73.8	74.8
IV 1800	24.4	34.0	43.0	43.0	54.5	57.2	63.2	68.2	69.7	70.7	72.1	73.1	73.8	73.9	74.3	75.3
IV 1500	25.1	35.0	44.5	44.5	56.4	59.2	65.1	70.3	71.8	72.8	74.2	75.3	76.0	76.1	76.5	77.5
IV 1200	26.0	36.1	46.0	46.0	58.2	61.3	67.4	72.8	74.3	75.3	76.6	77.8	78.5	78.6	79.0	80.0
IV 1000	26.9	37.9	48.0	48.0	61.3	64.5	71.2	76.9	78.4	79.6	81.0	82.1	82.9	83.1	83.4	84.7
IV 900	26.9	37.9	48.0	48.0	61.3	64.5	71.2	76.9	78.4	79.6	81.0	82.1	82.9	83.1	83.4	84.7
IV 800	27.4	38.7	49.1	49.1	63.4	66.6	73.3	79.4	81.1	82.4	83.8	84.9	85.8	85.9	86.3	87.5
IV 700	27.7	39.2	49.8	49.8	64.8	68.1	75.3	81.6	83.4	84.8	86.3	87.4	88.4	88.5	88.9	90.1
IV 600	27.8	39.3	49.9	49.9	65.4	68.9	76.1	83.1	85.0	86.7	88.3	89.4	90.6	90.7	91.1	92.3
IV 500	27.8	39.4	50.2	50.2	66.3	69.8	77.4	84.7	86.7	88.3	89.9	91.2	92.5	92.6	93.1	94.3
IV 400	27.8	39.4	50.2	50.2	66.9	70.7	78.5	86.4	88.4	90.2	91.8	93.3	94.6	94.7	95.2	96.4
IV 300	27.8	39.4	50.2	50.2	66.9	70.7	78.5	86.4	88.4	90.5	92.1	93.6	94.9	95.1	95.6	97.0
IV 200	27.8	39.4	50.2	50.2	66.9	70.7	78.5	86.5	88.5	90.6	92.2	93.7	95.3	95.6	96.7	98.5
IV 100	27.8	39.4	50.2	50.2	66.9	70.7	78.5	86.5	88.5	90.6	92.3	93.8	95.4	95.7	96.9	99.0
IV 0	27.8	39.4	50.2	50.2	66.9	70.7	78.5	86.5	88.5	90.6	92.3	93.8	95.4	95.7	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4212  
STATION

OSAN AB MO

STATION NAME

73-81  
YEARS

YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (LT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ .	≥ 0
NO CEILING	25.6	31.2	33.7	33.7	35.9	36.0	36.4	37.0	37.2	37.3	37.4	37.5	37.5	37.5	37.5	37.7
≥ 20000	32.6	41.1	43.3	43.3	46.4	46.8	47.4	48.0	48.1	48.3	48.5	48.6	48.6	48.6	48.6	48.8
≥ 18000	33.3	41.1	44.3	44.3	47.4	47.8	48.5	49.3	49.4	49.5	49.8	50.0	50.0	50.0	50.0	50.1
≥ 16000	33.7	41.6	45.1	45.1	48.3	48.6	49.4	50.1	50.2	50.4	50.6	50.9	50.9	50.9	50.9	51.0
≥ 14000	34.4	42.3	45.8	45.8	49.0	49.5	50.4	51.1	51.2	51.4	51.6	51.9	51.9	51.9	51.9	52.0
≥ 12000	35.7	43.8	47.3	47.3	50.5	51.0	51.9	52.6	52.7	52.8	53.1	53.3	53.3	53.3	53.3	53.5
≥ 10000	37.2	46.7	50.2	50.2	54.2	54.7	55.7	56.4	56.5	56.7	56.9	57.2	57.2	57.2	57.2	57.3
≥ 9000	38.1	48.0	51.6	51.6	55.8	56.3	57.3	58.0	58.1	58.3	58.5	58.8	58.8	58.8	58.8	58.9
≥ 8000	40.9	51.5	55.3	55.3	59.9	60.6	61.9	62.7	62.8	63.0	63.2	63.5	63.5	63.5	63.5	63.6
≥ 7000	42.6	53.7	57.7	57.7	62.3	63.1	64.4	65.3	65.4	65.6	65.8	66.0	66.0	66.0	66.0	66.2
≥ 6000	42.7	53.8	57.8	57.8	62.5	63.2	64.6	65.4	65.6	65.7	65.9	66.2	66.2	66.2	66.2	66.3
≥ 5000	43.6	54.7	58.6	58.6	63.5	64.3	65.7	66.5	66.7	66.8	67.0	67.3	67.3	67.3	67.3	67.4
≥ 4500	43.8	54.9	58.9	58.9	63.7	64.6	65.9	66.8	66.9	67.0	67.3	67.5	67.5	67.5	67.5	67.7
≥ 4000	44.8	56.2	60.1	60.1	65.4	66.3	67.7	68.6	68.8	68.9	69.1	69.4	69.4	69.4	69.4	69.5
≥ 3500	46.2	58.1	62.2	62.2	67.9	68.8	70.1	71.2	71.4	71.5	71.7	72.0	72.0	72.0	72.0	72.1
≥ 3000	48.0	60.7	66.0	66.0	72.5	73.5	75.3	77.0	77.2	77.4	77.7	77.9	77.9	77.9	77.9	78.0
≥ 2500	49.3	62.5	68.0	68.0	74.6	75.6	77.5	79.3	79.4	79.6	79.9	80.1	80.1	80.1	80.1	80.2
≥ 2000	51.5	65.4	71.2	71.2	78.4	79.8	81.9	83.7	83.8	84.1	84.3	84.6	84.6	84.6	84.6	84.7
≥ 1800	51.6	65.6	71.4	71.4	78.5	79.9	82.0	83.8	84.0	84.2	84.4	84.7	84.7	84.7	84.7	84.8
≥ 1500	54.1	68.8	75.1	75.1	82.7	84.1	86.3	88.3	88.4	88.6	88.9	89.1	89.1	89.1	89.1	89.3
≥ 1200	54.6	69.8	76.4	76.4	84.4	86.2	88.6	90.6	90.7	91.0	91.2	91.5	91.5	91.5	91.5	91.6
≥ 1000	54.8	71.4	78.8	78.8	87.8	89.9	92.3	94.3	94.4	94.7	94.9	95.3	95.3	95.3	95.3	95.4
≥ 900	54.9	71.6	79.1	79.1	88.3	90.5	93.0	94.9	95.1	95.3	95.6	95.9	95.9	95.9	95.9	96.0
≥ 800	55.2	72.0	79.8	79.8	89.1	91.4	93.8	96.2	96.3	96.5	96.8	97.2	97.2	97.2	97.2	97.3
≥ 700	55.3	72.1	80.1	80.1	89.6	91.9	94.4	96.9	97.0	97.3	97.5	97.9	97.9	97.9	97.9	98.0
≥ 600	55.4	72.3	80.4	80.4	90.1	92.5	95.1	97.5	97.7	97.9	98.1	98.5	98.5	98.5	98.5	98.6
≥ 500	55.6	72.5	80.5	80.5	90.9	93.2	95.8	98.5	98.6	98.9	99.1	99.5	99.5	99.5	99.5	99.6
≥ 400	55.6	72.5	80.5	80.5	90.9	93.2	95.8	98.6	98.9	99.1	99.5	99.9	99.9	99.9	99.9	100.0
≥ 300	55.6	72.5	80.5	80.5	90.9	93.2	95.8	98.6	98.9	99.1	99.5	99.9	99.9	99.9	99.9	100.0
≥ 200	55.6	72.5	80.5	80.5	90.9	93.2	95.8	98.6	98.9	99.1	99.5	99.9	99.9	99.9	99.9	100.0
≥ 100	55.6	72.5	80.5	80.5	90.9	93.2	95.8	98.6	98.9	99.1	99.5	99.9	99.9	99.9	99.9	100.0
≥ 0	55.6	72.5	80.5	80.5	90.9	93.2	95.8	98.6	98.9	99.1	99.5	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 810

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
12112

OSAN AB KO

STATION NAME

73-81

YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1230-1400  
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ 0
NO CEILING	32.2	42.2	42.9	42.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 20000	43.6	55.5	56.7	56.7	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 18000	43.8	55.7	57.0	57.0	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 16000	43.9	56.0	57.2	57.2	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 14000	44.9	57.1	58.3	58.3	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 12000	46.2	59.0	60.2	60.2	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 10000	49.3	60.9	62.3	62.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 9000	48.8	62.1	63.4	63.4	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 8000	53.2	67.0	69.0	69.0	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 7000	54.6	68.6	70.6	70.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 6000	54.9	68.9	70.8	70.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 5000	55.6	70.0	72.1	72.1	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 4500	56.1	70.6	72.7	72.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 4000	59.1	73.8	76.1	76.1	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 3500	60.7	75.6	78.0	78.0	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
≥ 3000	66.1	82.1	84.8	84.8	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 2500	67.4	83.4	86.4	86.4	90.7	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 2000	68.9	85.4	88.4	88.4	93.0	93.0	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1800	69.0	85.5	88.5	88.5	93.1	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500	70.3	87.8	91.0	91.0	95.7	95.7	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1200	70.8	88.5	92.1	92.1	96.9	97.2	97.5	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8	97.8
≥ 1000	71.1	89.0	93.0	93.0	97.9	98.1	98.5	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8
≥ 900	71.2	89.2	93.3	93.3	98.3	98.5	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
≥ 800	71.2	89.2	93.3	93.3	98.3	98.5	98.9	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
≥ 700	71.2	89.2	93.3	93.3	98.5	98.8	99.1	99.4	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6
≥ 600	71.2	89.4	93.4	93.4	98.8	99.0	99.5	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 500	71.2	89.4	93.4	93.4	98.8	99.0	99.5	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 400	71.2	89.4	93.4	93.4	98.8	99.0	99.5	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 300	71.2	89.4	93.4	93.4	98.8	99.0	99.5	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 200	71.2	89.4	93.4	93.4	98.8	99.0	99.5	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 100	71.2	89.4	93.4	93.4	98.8	99.0	99.5	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
≥ 0	71.2	89.4	93.4	93.4	98.8	99.0	99.5	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 2  
STATION

DSAN AB KO

STATION NAME

73-81

YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	43.2	44.7	44.9	44.9	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
≥ 20000	45.3	58.9	59.4	59.4	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 18000	46.4	60.2	60.6	60.6	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 16000	46.5	60.1	60.7	60.7	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 14000	47.2	60.7	61.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 12000	50.0	64.1	64.9	64.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 10000	53.8	68.5	69.5	69.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 9000	54.4	69.1	70.1	70.1	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 8000	58.5	75.4	77.0	77.0	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 7000	59.8	76.9	78.5	78.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 6000	60.2	77.4	79.0	79.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 5000	61.1	78.3	79.9	79.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4500	61.6	78.8	80.4	80.4	82.3	82.3	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 4000	63.5	81.0	83.0	83.0	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 3500	64.2	81.9	83.8	83.8	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 3000	68.3	86.3	88.3	88.3	91.1	91.1	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2500	69.3	87.7	89.8	89.8	93.1	93.1	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
≥ 2000	70.2	88.8	91.0	91.0	94.4	94.6	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1800	70.4	89.0	91.2	91.2	94.7	94.8	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1500	73.6	89.8	92.0	92.0	95.6	95.7	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 1200	71.1	90.2	92.5	92.5	96.0	96.2	96.7	96.9	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1000	72.1	91.2	93.6	93.6	97.3	97.4	97.9	98.1	98.1	98.3	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	72.3	91.5	93.8	93.8	97.5	97.7	98.1	98.4	98.4	98.5	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	72.3	91.5	93.8	93.8	97.5	97.7	98.1	98.4	98.4	98.5	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700	72.3	91.5	93.8	93.8	97.5	97.8	98.4	98.9	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	72.3	91.6	94.0	94.0	97.7	97.9	98.5	99.0	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	72.3	91.6	94.0	94.0	97.7	97.9	98.6	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	72.3	91.6	94.0	94.0	97.7	97.9	98.6	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	72.3	91.6	94.0	94.0	97.7	97.9	98.6	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	72.3	91.6	94.0	94.0	97.7	97.9	98.6	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	72.3	91.6	94.0	94.0	97.7	97.9	98.6	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	72.3	91.6	94.0	94.0	97.7	97.9	98.6	99.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

USAF ETAC FORM 10-45 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



CLIMATE CLIMATOLOGY BRANCH  
USAF ETAC  
LEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
11.2

OSAN AB KO

73-01

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (EST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥0
NO CEILING	32.7	43.5	44.8	44.8	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
≥ 20000	43.5	56.2	58.1	58.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
IV 18000	44.6	57.5	59.5	59.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
IV 16000	44.9	58.7	60.0	60.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
IV 14000	45.2	59.8	62.0	62.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
IV 12000	46.0	62.2	64.8	64.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
IV 10000	52.6	67.2	69.8	69.8	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 9000	53.1	67.7	70.2	70.2	72.5	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 8000	56.0	72.5	76.4	76.4	78.9	79.0	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 7000	57.3	73.8	77.8	77.8	80.2	80.4	80.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 6000	57.4	74.2	78.1	78.1	80.7	80.9	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
IV 5000	57.9	74.8	78.9	78.9	81.7	81.9	82.1	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
IV 4500	58.3	75.2	79.3	79.3	82.1	82.2	82.5	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
IV 4000	51.7	78.0	82.3	82.3	85.8	86.0	86.5	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 3500	61.7	78.9	83.2	83.2	86.7	86.9	87.4	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IV 3000	63.7	81.5	86.2	86.2	89.9	90.4	91.0	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IV 2500	63.7	81.7	86.4	86.4	90.5	91.0	91.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
IV 2000	64.8	83.5	88.3	88.3	92.8	93.5	94.3	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 1800	64.8	83.6	88.4	88.4	93.0	93.6	94.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 1500	65.4	84.2	89.0	89.0	93.6	94.2	95.2	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1200	65.6	84.4	89.4	89.4	94.0	94.7	95.7	97.0	97.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 1000	65.9	84.8	89.8	89.8	94.6	95.3	96.3	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 900	66.0	84.9	89.9	89.9	94.7	95.4	96.4	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 800	66.2	85.1	90.2	90.2	95.1	95.8	96.8	98.1	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 700	66.4	85.3	90.6	90.6	95.7	96.4	97.5	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 600	66.4	85.3	90.6	90.6	95.8	96.5	97.7	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 500	66.4	85.3	90.6	90.6	95.8	96.5	97.8	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8
IV 400	66.4	85.3	90.6	90.6	95.8	96.5	97.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	66.4	85.3	90.6	90.6	95.8	96.5	97.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	66.4	85.3	90.6	90.6	95.8	96.5	97.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	66.4	85.3	90.6	90.6	95.8	96.5	97.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	66.4	85.3	90.6	90.6	95.8	96.5	97.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

412  
STATION

USAN AB NO

STATION NAME

73-81

YEARS

JUN

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

100-2307  
HOURS 151

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥0.5	≥0.25	≥0.15	≥0.10	≥0.05	≥0.025	≥0.01
NO CEILING	25.1	43.6	45.4	45.4	47.6	47.6	47.6	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 20000	43.5	53.9	55.6	55.6	61.1	61.1	61.1	60.1	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 18000	44.3	54.6	56.4	56.4	61.8	61.8	61.8	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
≥ 16000	44.4	54.8	56.7	56.7	61.2	61.2	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 14000	44.5	54.9	56.9	56.9	61.7	61.7	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 12000	45.7	56.1	58.1	58.1	63.0	63.0	63.0	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 10000	44.7	60.0	62.2	62.2	67.4	67.4	67.4	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 9000	49.3	60.7	62.9	62.9	68.1	68.1	68.1	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 8000	52.2	64.3	67.4	67.4	73.2	73.2	73.2	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 7000	53.4	65.6	69.1	69.1	75.2	75.2	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 6000	73.3	65.8	69.2	69.2	75.3	75.3	75.4	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 5000	64.3	66.5	71.3	71.3	76.6	76.6	77.3	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 4500	55.1	67.4	71.3	71.3	77.8	77.8	77.9	78.1	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 4000	57.2	69.8	73.9	73.9	81.1	81.1	81.6	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 3500	58.1	71.7	74.9	74.9	82.2	82.3	82.7	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 3000	59.8	72.6	76.3	76.3	84.9	85.7	85.5	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 2500	60.9	73.8	79.7	79.7	86.4	86.7	87.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 2000	62.4	76.0	81.5	81.5	89.4	89.6	90.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1800	62.7	76.3	81.7	81.7	89.6	89.9	90.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 1500	64.3	77.9	82.3	82.3	91.6	91.8	92.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1200	65.1	78.9	83.4	83.4	92.7	93.0	93.6	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1000	65.3	79.2	83.8	83.8	93.1	93.3	93.9	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900	65.4	79.5	84.1	84.1	93.6	93.8	94.4	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 800	65.5	79.9	84.5	84.5	94.2	94.4	95.1	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 700	65.8	80.1	84.9	84.9	94.8	95.1	95.8	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 600	65.9	80.2	85.2	85.2	95.3	95.6	96.3	97.5	97.7	97.8	97.9	97.9	97.9	97.9	97.9	97.9
≥ 500	66.2	80.3	85.3	85.3	96.0	96.3	97.0	98.5	98.8	99.0	99.1	99.3	99.3	99.3	99.3	99.3
≥ 400	66.3	80.3	85.3	85.3	96.0	96.3	97.2	98.6	98.9	99.4	99.5	99.6	99.6	99.6	99.6	99.6
≥ 300	66.7	80.3	85.3	85.3	96.0	96.3	97.2	98.8	99.0	99.6	99.8	99.9	100.0	100.0	100.0	100.0
≥ 200	66.7	80.3	85.3	85.3	96.0	96.3	97.2	98.8	99.0	99.6	99.8	99.9	100.0	100.0	100.0	100.0
≥ 100	66.7	80.3	85.3	85.3	96.0	96.3	97.2	98.8	99.0	99.6	99.8	99.9	100.0	100.0	100.0	100.0
≥ 0	66.7	80.3	85.3	85.3	96.0	96.3	97.2	98.8	99.0	99.6	99.8	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

U.S. AIR FORCE CLIMATOLOGY BRANCH  
ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION NAME  
AF 40

75-81

JUN  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥.5	≥.4	≥.3	≥.25	≥.2	≥.16	≥.1
NO CEILING	27.1	34.7	37.7	37.0	30.6	39.8	40.6	41.2	41.3	41.4	41.5	41.6	41.7	41.7	41.8	42.0
≥ 20000	34.3	43.7	46.6	46.6	50.2	50.3	51.4	52.2	52.4	52.5	52.6	52.8	52.9	52.9	53.0	53.2
≥ 18000	34.9	44.4	47.4	47.4	51.0	51.2	52.2	53.0	53.2	53.3	53.5	53.7	53.7	53.8	53.9	54.1
≥ 16000	31.1	44.6	47.6	47.6	51.3	51.5	52.5	53.4	53.5	53.6	53.8	54.0	54.1	54.1	54.2	54.4
≥ 14000	35.7	45.3	48.5	48.5	52.2	52.5	53.5	54.3	54.5	54.6	54.7	54.9	55.0	55.1	55.2	55.4
≥ 12000	37.3	47.2	50.5	50.6	54.4	54.7	55.7	56.6	56.8	56.9	57.1	57.3	57.3	57.4	57.5	57.7
≥ 10000	39.7	50.3	53.9	53.9	58.2	58.6	59.7	60.6	60.8	60.9	61.0	61.2	61.3	61.4	61.5	61.7
≥ 9000	40.4	51.1	54.7	54.7	59.1	59.5	60.6	61.5	61.7	61.8	62.0	62.2	62.3	62.3	62.4	62.6
≥ 8000	43.1	55.7	59.2	59.3	64.2	64.7	66.7	66.9	67.2	67.3	67.4	67.6	67.7	67.8	67.8	68.1
≥ 7000	44.3	56.4	60.2	60.9	66.1	66.5	67.9	68.9	69.1	69.2	69.4	69.6	69.7	69.7	69.8	70.0
≥ 6000	44.5	56.7	61.2	61.2	66.4	66.9	68.3	69.2	69.4	69.6	69.7	69.9	70.0	70.1	70.2	70.4
≥ 5000	45.2	57.5	62.2	62.2	67.6	68.1	69.5	70.5	70.7	70.9	71.1	71.3	71.4	71.4	71.5	71.7
≥ 4500	45.7	58.0	62.7	62.7	68.1	68.6	70.1	71.1	71.3	71.5	71.7	71.9	72.0	72.0	72.1	72.3
≥ 4000	47.6	60.3	65.2	65.2	71.2	71.8	73.3	74.5	74.7	74.9	75.1	75.3	75.4	75.4	75.5	75.8
≥ 3500	48.6	61.4	66.5	66.5	72.8	73.3	75.0	76.2	76.4	76.6	76.8	77.0	77.1	77.2	77.3	77.5
≥ 3000	51.1	64.5	70.1	70.1	77.7	77.8	79.7	81.1	81.3	81.6	81.8	82.0	82.2	82.2	82.3	82.5
≥ 2500	51.5	65.5	71.3	71.3	79.6	79.3	81.3	82.9	83.1	83.4	83.6	83.9	84.0	84.0	84.1	84.4
≥ 2000	53.0	67.2	73.2	73.2	80.9	81.7	83.8	85.6	85.8	86.1	86.4	86.6	86.7	86.8	86.9	87.1
≥ 1800	53.2	67.4	73.5	73.5	81.3	82.1	84.2	85.9	86.2	86.5	86.7	86.9	87.1	87.1	87.2	87.4
≥ 1500	54.5	69.1	75.4	75.4	83.6	84.5	86.7	88.5	88.7	89.1	89.3	89.5	89.7	89.7	89.8	90.1
≥ 1200	55.1	69.9	76.5	76.5	84.9	85.9	88.2	90.1	90.4	90.7	91.0	91.2	91.4	91.4	91.5	91.8
≥ 1000	55.6	70.8	77.7	77.7	86.5	87.6	90.1	92.1	92.4	92.7	93.0	93.3	93.4	93.5	93.6	93.8
≥ 900	55.6	71.1	78.0	78.0	87.0	88.1	90.6	92.6	92.8	93.2	93.5	93.8	93.9	94.0	94.1	94.3
≥ 800	55.1	71.6	79.0	78.6	87.8	89.0	91.6	93.6	94.0	94.3	94.6	94.9	95.1	95.1	95.2	95.5
≥ 700	55.2	71.8	79.0	78.9	88.5	89.7	92.4	94.6	94.9	95.4	95.7	96.0	96.2	96.2	96.3	96.6
≥ 600	55.3	71.9	79.0	79.0	88.8	90.1	92.9	95.1	95.5	96.0	96.3	96.6	96.8	96.8	96.9	97.2
≥ 500	55.5	72.1	79.3	79.3	89.4	90.7	93.6	96.1	96.5	97.0	97.3	97.7	97.9	97.9	98.0	98.3
≥ 400	56.5	72.1	79.3	79.3	89.6	90.9	94.7	96.6	97.1	97.7	98.0	98.4	98.6	98.6	98.8	99.0
≥ 300	56.5	72.1	79.3	79.3	89.7	91.0	94.1	96.8	97.2	97.9	98.3	98.6	98.9	99.0	99.1	99.4
≥ 200	56.5	72.1	79.3	79.3	89.7	91.0	94.1	96.8	97.3	97.9	98.3	98.7	99.1	99.2	99.4	99.8
≥ 100	56.5	72.1	79.3	79.3	89.7	91.0	94.1	96.8	97.3	97.9	98.4	98.7	99.1	99.2	99.4	99.8
≥ 0	56.5	72.1	79.3	79.3	89.7	91.0	94.1	96.8	97.3	97.9	98.4	98.8	99.1	99.2	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 5475

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

GSAN AB KO

STATION NAME

73-81

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2000-2200  
TIME

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	21.1	23.3	27.5	27.5	33.2	33.5	34.3	34.8	35.1	35.4	35.5	35.5	35.6	35.6	35.6	35.6
≥ 20000	23.9	26.6	32.1	32.1	39.7	39.9	41.0	41.7	42.2	42.4	42.6	42.6	42.7	42.7	42.7	42.7
≥ 18000	24.2	27.0	32.5	32.5	40.0	40.3	41.4	42.1	42.6	42.8	42.9	42.9	43.0	43.0	43.0	43.0
≥ 16000	24.3	27.1	32.6	32.6	40.2	40.4	41.5	42.2	42.7	42.9	43.0	43.0	43.2	43.2	43.2	43.2
≥ 14000	24.6	27.3	32.9	32.9	40.4	40.6	41.7	42.4	42.9	43.2	43.3	43.3	43.4	43.4	43.4	43.4
≥ 12000	26.3	29.1	34.7	34.7	42.6	42.8	43.9	44.6	45.2	45.4	45.6	45.6	45.7	45.7	45.7	45.7
≥ 10000	29.1	32.4	38.5	38.5	47.4	47.7	48.8	49.5	50.1	50.5	50.6	50.6	50.7	50.7	50.7	50.7
≥ 9000	30.1	33.3	39.4	39.4	48.3	48.7	49.8	50.5	51.1	51.4	51.6	51.6	51.7	51.7	51.7	51.7
≥ 8000	33.6	37.2	43.6	43.6	53.5	53.8	54.9	55.9	56.6	57.0	57.1	57.1	57.2	57.2	57.2	57.2
≥ 7000	35.9	39.6	46.0	46.0	55.9	56.2	57.3	58.3	59.0	59.4	59.5	59.5	59.6	59.6	59.6	59.6
≥ 6000	36.0	39.7	46.2	46.2	56.1	56.5	57.6	58.5	59.2	59.6	59.7	59.7	59.8	59.8	59.8	59.8
≥ 5000	37.4	41.1	47.7	47.7	58.2	58.5	59.6	60.6	61.3	61.6	61.8	61.8	61.9	61.9	61.9	61.9
≥ 4500	37.9	42.3	48.7	48.7	59.4	59.7	60.8	61.8	62.5	62.8	62.9	62.9	63.1	63.1	63.1	63.1
≥ 4000	40.5	45.0	52.4	52.4	63.8	64.1	65.2	66.2	66.9	67.3	67.4	67.4	67.5	67.5	67.5	67.5
≥ 3500	41.6	46.6	54.6	54.6	66.2	66.7	68.1	69.1	69.8	70.1	70.3	70.3	70.4	70.4	70.4	70.4
≥ 3000	43.6	49.4	58.0	58.0	72.2	72.9	74.3	75.4	76.1	76.5	76.6	76.6	76.7	76.7	76.7	76.7
≥ 2500	45.3	51.3	61.2	61.2	75.7	76.4	77.8	79.3	80.0	80.3	80.5	80.5	80.6	80.6	80.6	80.6
≥ 2000	47.5	53.7	63.8	63.8	79.3	80.0	81.8	83.2	83.9	84.3	84.4	84.4	84.5	84.5	84.5	84.5
≥ 1800	48.3	54.2	64.5	64.5	80.1	80.8	82.6	84.1	84.8	85.1	85.3	85.3	85.4	85.4	85.4	85.4
≥ 1500	49.9	56.2	66.7	66.7	83.1	83.8	85.9	87.4	88.2	88.6	88.7	88.7	88.8	88.8	88.8	88.8
≥ 1200	50.4	57.1	67.6	67.6	84.1	84.8	86.8	88.5	89.3	89.7	89.8	89.8	89.9	89.9	89.9	89.9
≥ 1000	51.6	58.5	69.3	69.3	86.5	87.4	89.7	91.6	92.4	92.8	92.9	92.9	93.0	93.0	93.0	93.0
≥ 900	52.2	59.1	69.9	69.9	87.1	88.0	90.3	92.2	93.0	93.4	93.5	93.5	93.6	93.6	93.6	93.6
≥ 800	52.5	59.5	70.5	70.5	88.0	89.0	91.4	93.3	94.1	94.5	94.6	94.6	94.7	94.7	94.7	94.7
≥ 700	52.5	59.5	70.5	70.5	88.1	89.1	91.7	93.6	94.5	94.8	95.0	95.0	95.1	95.1	95.1	95.1
≥ 600	52.9	59.8	71.1	71.1	88.8	89.8	92.4	94.5	95.6	95.9	96.0	96.0	96.2	96.2	96.2	96.2
≥ 500	53.5	61.7	72.2	72.2	90.6	91.6	94.5	96.6	97.8	98.2	98.4	98.4	98.6	98.6	98.6	98.6
≥ 400	53.5	60.7	72.4	72.4	91.0	92.0	94.8	97.2	98.4	98.9	99.2	99.2	99.3	99.3	99.3	99.3
≥ 300	53.5	60.7	72.4	72.4	91.1	92.1	95.0	97.7	98.9	99.4	99.8	99.8	99.9	99.9	99.9	99.9
≥ 200	53.5	60.7	72.4	72.4	91.1	92.1	95.0	97.7	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	53.5	60.7	72.4	72.4	91.1	92.1	95.0	97.7	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	53.5	60.7	72.4	72.4	91.1	92.1	95.0	97.7	98.9	99.5	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 834

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4/1/21 USAN AB KC

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥⅓	≥⅒	≥0
NO CEILING	11.3	13.3	14.9	14.9	19.9	20.4	22.2	24.1	25.3	26.1	26.3	26.3	26.3	26.3	26.5	26.5
≥ 20000	13.5	16.4	17.7	17.7	23.6	24.4	26.6	28.5	29.7	30.5	30.8	30.8	30.8	30.8	30.9	30.9
≥ 18000	13.9	16.4	18.1	18.1	24.0	24.8	26.9	28.9	30.1	30.9	31.1	31.1	31.3	31.3	31.4	31.4
≥ 16000	13.9	16.4	18.1	18.1	24.0	24.9	27.1	29.0	30.2	31.0	31.3	31.3	31.4	31.4	31.5	31.5
≥ 14000	13.9	16.4	18.1	18.1	24.1	25.0	27.3	29.3	30.5	31.4	31.6	31.6	31.7	31.7	31.9	31.9
≥ 12000	15.2	17.8	19.6	19.6	25.7	26.8	29.1	31.3	32.6	33.4	33.8	33.8	33.9	33.9	34.0	34.0
≥ 10000	17.2	20.6	23.0	23.0	29.7	30.8	33.3	35.8	37.2	38.1	38.4	38.4	38.8	38.8	38.9	38.9
≥ 9000	18.0	21.3	23.7	23.7	30.5	31.6	34.1	36.6	38.1	38.9	39.3	39.3	39.6	39.6	39.8	39.8
≥ 8000	21.2	24.7	27.3	27.3	34.9	36.3	38.9	41.7	43.2	44.1	44.4	44.4	44.8	44.8	44.9	44.9
≥ 7000	22.8	26.3	29.1	29.1	36.6	38.1	40.7	43.5	45.0	45.9	46.2	46.2	46.6	46.6	46.7	46.7
≥ 6000	23.0	26.7	29.5	29.5	37.0	38.4	41.1	43.8	45.4	46.2	46.6	46.6	46.9	46.9	47.1	47.1
≥ 5000	24.0	27.8	30.8	30.8	39.3	40.7	43.5	46.3	47.9	48.7	49.1	49.1	49.5	49.5	49.6	49.6
≥ 4500	24.8	28.9	32.0	32.0	40.5	41.9	44.7	47.5	49.1	49.9	50.3	50.3	50.7	50.7	50.8	50.8
≥ 4000	25.9	30.7	35.0	35.0	44.4	45.9	48.9	52.0	53.5	54.4	54.7	54.7	55.1	55.1	55.2	55.2
≥ 3500	26.7	31.7	36.3	36.3	46.3	47.8	51.1	54.3	55.8	56.6	57.0	57.0	57.4	57.4	57.5	57.5
≥ 3000	30.8	36.4	41.6	41.6	53.5	55.1	59.0	62.5	64.4	65.4	65.9	66.1	66.5	66.5	66.6	66.6
≥ 2500	32.3	38.1	43.8	43.8	56.5	58.4	62.5	66.1	68.3	69.2	69.7	69.9	70.3	70.3	70.4	70.4
≥ 2000	33.4	39.5	45.7	45.7	59.8	62.2	66.2	69.9	72.1	73.2	73.7	73.9	74.3	74.3	74.4	74.4
≥ 1800	33.9	40.2	46.6	46.6	61.3	63.7	67.8	71.5	73.7	74.7	75.2	75.4	75.8	75.8	75.9	75.9
≥ 1500	35.4	42.0	48.7	48.7	64.6	67.1	71.3	75.1	77.2	78.3	78.8	79.0	79.4	79.4	79.5	79.5
≥ 1200	35.8	42.6	49.7	49.7	66.6	69.2	73.4	77.5	79.8	80.8	81.3	81.6	81.9	81.9	82.0	82.0
≥ 1000	36.4	43.5	51.1	51.1	69.0	72.2	76.8	81.9	84.4	85.6	86.1	86.3	86.8	86.8	86.9	86.9
≥ 900	37.1	44.2	52.0	52.0	69.9	73.3	78.0	83.1	85.6	86.8	87.3	87.5	88.0	88.0	88.1	88.1
≥ 800	37.7	44.9	53.2	53.2	72.0	75.4	80.5	85.6	88.1	89.3	89.9	90.3	90.9	90.9	91.0	91.0
≥ 700	37.8	45.0	53.4	53.4	72.5	76.0	81.1	86.2	88.7	90.2	90.8	91.1	91.7	91.7	91.9	91.9
≥ 600	38.7	45.1	53.8	53.8	73.1	76.6	82.3	87.5	90.1	91.5	92.1	92.5	93.2	93.2	93.3	93.3
≥ 500	38.2	45.5	54.3	54.3	74.9	78.7	84.3	89.7	92.3	93.9	94.5	94.9	95.7	95.7	95.8	95.9
≥ 400	38.3	45.6	54.6	54.6	75.3	79.3	84.9	90.3	93.1	94.9	95.6	96.0	97.0	97.1	97.2	97.5
≥ 300	38.3	45.6	54.6	54.6	75.3	79.3	84.9	90.4	93.2	95.1	95.8	96.3	97.4	97.5	97.7	98.0
≥ 200	38.3	45.6	54.6	54.6	75.3	79.3	84.9	90.8	93.5	95.6	96.4	97.0	98.2	98.3	98.8	99.4
≥ 100	38.3	45.6	54.6	54.6	75.3	79.3	84.9	90.8	93.5	95.6	96.5	97.1	98.3	98.4	98.9	99.5
≥ 0	38.3	45.6	54.6	54.6	75.3	79.3	85.0	90.9	93.7	95.7	96.6	97.2	98.7	98.8	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 835

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
SPOTETAC  
AT WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
712

OSAN AB KO

STATION NAME

73-81

YEARS

JUL  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	7.8	9.8	12.6	10.6	13.3	14.0	15.6	17.9	18.9	19.9	20.1	20.3	21.3	21.4	21.4	21.7
≥ 20000	9.8	12.2	13.4	13.4	16.9	17.8	19.9	23.2	24.2	25.4	25.6	26.0	27.0	27.3	27.3	27.6
≥ 18000	9.8	12.2	13.4	13.4	16.9	17.8	19.9	23.3	24.3	25.5	25.7	26.1	27.2	27.4	27.4	27.8
≥ 16000	9.8	12.2	13.4	13.4	16.9	17.9	20.0	23.6	24.6	25.8	26.1	26.4	27.5	27.8	27.8	28.1
≥ 14000	10.2	12.8	14.1	14.0	17.6	18.8	20.9	24.6	25.7	26.9	27.2	27.5	28.6	28.8	28.8	29.2
≥ 12000	10.9	13.6	14.8	14.8	18.5	20.0	22.2	26.0	27.0	28.3	28.6	28.9	30.0	30.3	30.3	30.6
≥ 10000	13.6	16.7	18.2	18.2	22.8	24.3	26.6	30.7	31.9	33.4	34.0	34.3	35.5	35.8	35.8	36.1
≥ 9000	14.2	17.3	19.8	18.8	23.4	25.0	27.3	31.5	32.7	34.1	34.7	35.0	36.2	36.5	36.5	36.8
≥ 8000	18.2	22.2	23.9	23.9	29.4	31.3	34.1	38.9	40.2	41.6	42.5	43.1	44.4	44.6	44.6	45.0
≥ 7000	19.6	24.0	25.8	25.8	31.9	34.1	37.1	42.1	43.4	44.9	45.7	46.3	47.6	47.8	47.8	48.2
≥ 6000	20.1	24.6	26.4	26.4	32.7	34.8	37.8	43.1	44.4	45.8	46.7	47.2	48.6	48.8	48.8	49.2
≥ 5000	20.3	25.5	27.5	27.5	34.0	36.2	39.5	45.1	46.4	47.8	48.7	49.3	50.6	50.8	50.8	51.2
≥ 4500	20.9	25.8	28.1	28.0	34.6	36.8	40.3	46.1	47.5	48.9	49.8	50.4	51.7	51.9	51.9	52.3
≥ 4000	22.1	27.6	30.1	30.1	37.2	39.5	43.1	48.8	50.2	51.7	52.5	53.1	54.4	54.7	54.7	55.0
≥ 3500	22.8	28.3	30.9	30.9	38.4	40.8	44.6	50.5	51.9	53.3	54.2	54.8	56.1	56.3	56.3	56.7
≥ 3000	25.4	31.3	34.6	34.6	43.9	46.8	51.2	57.7	59.1	60.8	61.7	62.3	63.8	64.0	64.1	64.7
≥ 2500	27.0	33.4	36.8	36.8	46.8	49.8	54.3	61.6	63.0	64.7	65.7	66.3	67.7	67.9	68.1	68.7
≥ 2000	28.5	35.6	39.8	39.8	50.8	54.3	59.4	67.1	68.5	70.2	71.2	71.8	73.3	73.6	73.7	74.3
≥ 1800	28.6	35.8	40.1	40.1	51.1	54.5	59.7	67.5	68.9	70.6	71.5	72.1	73.7	73.9	74.0	74.6
≥ 1500	30.0	37.7	42.7	42.7	55.0	58.5	63.8	72.1	73.6	75.4	76.4	77.2	78.8	79.1	79.2	79.8
≥ 1200	30.3	38.3	43.4	43.4	56.0	59.4	65.1	73.7	75.1	76.9	78.1	78.8	80.5	80.7	80.9	81.5
≥ 1000	30.6	38.9	44.1	44.1	58.3	62.1	68.5	78.0	79.5	81.6	83.0	84.0	85.9	86.1	86.4	87.1
≥ 900	30.9	39.2	44.5	44.5	58.9	62.7	69.3	78.7	80.3	82.3	83.7	84.7	86.6	86.8	87.1	87.8
≥ 800	31.1	39.8	45.3	45.3	60.3	64.1	70.9	80.7	82.3	84.3	85.8	86.7	88.8	89.0	89.2	90.0
≥ 700	31.3	40.2	45.9	45.9	61.8	65.7	72.7	82.5	84.1	86.1	87.7	88.6	90.7	90.9	91.1	91.9
≥ 600	31.8	40.7	46.8	46.8	63.2	67.1	74.3	84.4	86.0	88.2	89.7	90.7	92.7	92.9	93.2	93.9
≥ 500	31.9	40.8	47.4	47.4	64.5	68.3	75.6	86.2	87.9	90.1	91.7	92.7	94.7	95.1	95.5	96.5
≥ 400	31.9	40.8	47.4	47.4	64.5	68.4	75.8	86.5	88.6	90.9	92.7	93.7	95.8	96.2	96.8	98.0
≥ 300	31.9	40.8	47.4	47.4	64.5	68.4	75.8	86.5	88.8	91.1	93.2	94.1	96.4	96.8	97.5	98.7
≥ 200	31.9	40.8	47.4	47.4	64.5	68.4	75.8	86.7	89.0	91.6	93.7	94.6	97.0	97.4	98.6	99.8
≥ 100	31.9	40.8	47.4	47.4	64.5	68.4	75.8	86.7	89.0	91.6	93.7	94.6	97.0	97.4	98.6	99.8
≥ 0	31.9	40.8	47.4	47.4	64.5	68.4	75.8	86.7	89.0	91.6	93.7	94.7	97.1	97.5	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4712  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥⅓	≥⅒	≥0
NO CEILING	14.1	17.3	20.1	20.1	21.5	21.9	22.2	22.2	22.2	22.3	22.3	22.3	22.3	22.3	22.3	22.3
≥20000	20.1	24.4	29.2	28.2	30.2	30.7	31.1	31.2	31.2	31.4	31.4	31.4	31.4	31.4	31.4	31.4
IV 18000	20.8	25.3	29.3	29.3	31.4	31.9	32.3	32.5	32.5	32.7	32.7	32.7	32.7	32.7	32.7	32.7
IV 16000	20.8	25.3	29.3	29.3	31.4	31.9	32.3	32.5	32.5	32.7	32.7	32.7	32.7	32.7	32.7	32.7
IV 14000	21.5	26.5	30.5	30.5	32.7	33.2	33.6	33.8	33.8	34.1	34.1	34.1	34.1	34.1	34.1	34.1
IV 12000	22.7	27.6	31.8	31.8	34.2	34.6	35.0	35.4	35.4	35.6	35.6	35.6	35.6	35.6	35.6	35.6
IV 10000	26.0	31.3	36.0	36.0	38.8	39.4	40.0	40.5	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.7
IV 9000	27.1	32.6	37.4	37.4	40.3	40.9	41.5	41.9	41.9	42.2	42.2	42.2	42.2	42.2	42.2	42.2
IV 8000	31.2	37.2	42.4	42.4	45.9	46.5	47.2	47.7	47.7	47.9	47.9	47.9	47.9	47.9	47.9	47.9
IV 7000	33.7	40.1	45.6	45.6	49.6	50.2	50.9	51.4	51.4	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 6000	33.9	40.5	46.0	46.0	49.9	50.5	51.3	51.7	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 5000	35.5	42.3	48.1	48.1	52.3	52.9	53.6	54.1	54.2	54.5	54.5	54.5	54.5	54.5	54.5	54.5
IV 4500	36.6	43.4	49.2	49.2	53.6	54.2	55.0	55.7	55.8	56.0	56.0	56.0	56.0	56.0	56.0	56.0
IV 4000	39.1	46.4	52.3	52.3	56.9	57.5	58.2	58.9	59.0	59.3	59.3	59.3	59.3	59.3	59.3	59.3
IV 3500	41.7	48.7	55.0	55.0	59.5	60.1	60.8	61.5	61.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 3000	46.0	55.4	62.1	62.1	67.4	68.3	69.5	70.4	70.5	70.8	71.0	71.1	71.1	71.1	71.1	71.1
IV 2500	49.2	59.3	66.1	66.1	71.8	72.8	74.0	74.8	74.9	75.3	75.4	75.5	75.5	75.5	75.5	75.5
IV 2000	51.6	62.5	69.7	69.7	76.3	77.3	78.9	79.7	79.9	80.3	80.4	80.5	80.5	80.5	80.5	80.5
IV 1800	52.1	63.0	70.1	70.1	76.9	77.9	79.5	80.3	80.5	80.9	81.0	81.1	81.1	81.1	81.1	81.1
IV 1500	54.6	66.5	74.2	74.2	81.6	82.7	84.2	85.2	85.4	85.8	85.9	86.0	86.0	86.0	86.0	86.0
IV 1200	55.1	67.5	75.4	75.4	84.1	85.2	86.9	87.8	88.2	88.5	88.6	88.8	88.8	88.8	88.8	88.8
IV 1000	56.4	69.5	77.8	77.8	87.7	89.0	90.8	92.4	92.7	93.1	93.2	93.3	93.3	93.3	93.3	93.3
IV 900	56.6	69.8	78.0	78.0	87.9	89.2	91.0	92.6	93.0	93.3	93.4	93.5	93.5	93.5	93.5	93.5
IV 800	57.1	70.3	78.9	78.9	89.0	90.4	92.2	94.3	94.6	95.0	95.2	95.3	95.3	95.3	95.3	95.3
IV 700	57.6	71.1	80.2	80.2	90.3	91.8	93.7	95.8	96.2	96.5	96.8	96.9	96.9	96.9	96.9	96.9
IV 600	57.6	71.3	80.8	80.8	91.0	92.5	94.4	96.9	97.3	97.7	98.0	98.1	98.1	98.1	98.1	98.1
IV 500	57.6	71.3	81.0	81.0	91.5	93.0	95.1	97.7	98.1	98.6	99.2	99.3	99.4	99.4	99.4	99.4
IV 400	57.6	71.3	81.0	81.0	91.6	93.1	95.2	97.8	98.2	98.9	99.5	99.6	99.8	99.8	99.8	99.8
IV 300	57.6	71.3	81.0	81.0	91.6	93.1	95.2	97.8	98.2	98.9	99.6	99.8	100.0	100.0	100.0	100.0
IV 200	57.6	71.3	81.0	81.0	91.6	93.1	95.2	97.8	98.2	98.9	99.6	99.8	100.0	100.0	100.0	100.0
IV 100	57.6	71.3	81.0	81.0	91.6	93.1	95.2	97.8	98.2	98.9	99.6	99.8	100.0	100.0	100.0	100.0
IV 0	57.6	71.3	81.0	81.0	91.6	93.1	95.2	97.8	98.2	98.9	99.6	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

40122  
STATION

USAN AB KO  
STATION NAME

73-81  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (LT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥¾	≥½	≥⅓	≥¼	≥0
NO CEILING	23.1	28.7	29.7	29.7	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 20000	30.1	37.2	38.6	38.6	38.8	38.8	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
IV 18000	31.2	38.5	40.0	40.0	40.3	40.3	41.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
IV 16000	31.4	38.7	40.3	40.3	40.5	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
IV 14000	33.6	41.1	42.7	42.7	42.9	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 12000	35.0	42.5	44.1	44.1	44.3	44.3	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
IV 10000	39.9	47.6	49.2	49.2	49.5	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
IV 9000	41.1	49.0	50.7	50.7	50.9	50.9	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
IV 8000	45.3	54.0	56.0	56.0	56.6	56.6	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 7000	48.5	57.5	59.7	59.7	60.3	60.3	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
IV 6000	48.9	58.1	60.3	60.3	60.9	60.9	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IV 5000	49.8	59.1	61.4	61.4	62.4	62.4	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
IV 4500	50.4	59.7	62.0	62.0	63.0	63.0	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 4000	53.2	63.3	65.8	65.8	67.0	67.0	67.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 3500	56.3	66.4	69.1	69.1	70.3	70.3	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 3000	63.4	75.9	79.5	79.5	81.6	81.6	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
IV 2500	65.5	78.6	82.3	82.3	84.6	84.6	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IV 2000	68.9	82.9	86.7	86.7	89.5	89.5	90.0	90.6	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9
IV 1800	69.3	83.4	87.3	87.3	90.1	90.1	90.6	91.2	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IV 1500	70.6	84.8	88.9	88.9	91.9	92.0	92.6	93.2	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5
IV 1200	71.1	85.7	89.8	89.8	93.2	93.3	93.9	94.6	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1000	72.0	87.0	91.4	91.4	95.3	95.5	96.1	96.9	97.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 900	72.2	87.1	91.5	91.5	95.6	95.7	96.3	97.1	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 800	72.3	87.2	91.6	91.6	95.7	95.8	96.4	97.3	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 700	72.9	87.9	92.4	92.4	96.4	96.5	97.1	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 600	72.9	87.9	92.5	92.5	96.8	96.9	97.5	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 500	73.1	88.2	92.7	92.7	97.1	97.3	97.8	98.8	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 400	73.2	88.4	93.0	93.0	97.4	97.5	98.1	99.2	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	73.2	88.4	93.0	93.0	97.4	97.5	98.1	99.2	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	73.2	88.4	93.0	93.0	97.4	97.5	98.1	99.2	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	73.2	88.4	93.0	93.0	97.4	97.5	98.1	99.2	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	73.2	88.4	93.0	93.0	97.4	97.5	98.1	99.2	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 817

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4-122-  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS -151

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ .	≥ 0
NO CEILING	29.3	34.1	34.6	34.6	35.0	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
≥ 20000	40.0	46.1	46.7	46.7	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 18000	40.9	47.0	47.6	47.6	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 16000	41.1	47.2	47.8	47.8	48.6	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 14000	43.0	49.2	50.3	50.3	51.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 12000	45.2	51.6	52.8	52.8	53.6	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 10000	47.9	54.4	55.6	55.6	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 9000	49.6	56.0	57.2	57.2	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 8000	55.4	62.5	63.7	63.7	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 7000	57.3	64.6	65.8	65.8	67.0	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 6000	57.6	65.1	66.3	66.3	67.5	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 5000	59.5	67.1	68.3	68.3	69.8	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 4500	59.9	67.5	68.7	68.7	70.1	70.3	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 4000	63.3	71.8	73.4	73.4	74.8	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
≥ 3500	64.5	73.2	74.9	74.9	76.3	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 3000	71.3	81.6	83.6	83.6	85.7	85.8	86.0	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 2500	74.0	84.6	86.7	86.7	88.9	89.0	89.2	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 2000	76.7	87.0	89.1	89.1	91.4	91.5	91.8	91.8	91.8	92.0	92.0	92.0	92.0	92.1	92.1	92.1
≥ 1800	76.3	87.0	89.1	89.1	91.4	91.5	91.8	91.8	91.8	92.0	92.0	92.0	92.0	92.1	92.1	92.1
≥ 1500	77.3	88.4	90.7	90.7	93.3	93.4	93.8	93.9	93.9	94.3	94.3	94.3	94.4	94.4	94.4	94.4
≥ 1200	77.4	88.5	90.9	90.9	93.7	93.8	94.1	94.3	94.3	94.6	94.6	94.6	94.7	94.7	94.7	94.7
≥ 1000	78.3	90.1	93.0	93.0	96.4	96.5	97.4	97.6	97.7	98.1	98.2	98.2	98.3	98.3	98.3	98.3
≥ 900	78.3	90.1	93.0	93.0	96.4	96.5	97.4	97.7	97.8	98.2	98.3	98.3	98.4	98.4	98.4	98.4
≥ 800	78.3	90.3	93.2	93.2	96.7	96.8	97.6	98.0	98.1	98.4	98.6	98.6	98.7	98.7	98.7	98.7
≥ 700	78.3	90.3	93.2	93.2	96.7	96.8	97.6	98.0	98.1	98.4	98.6	98.6	98.7	98.7	98.7	98.7
≥ 600	78.5	90.6	93.4	93.4	97.1	97.3	98.1	98.4	98.6	99.0	99.2	99.2	99.3	99.3	99.3	99.3
≥ 500	78.6	90.7	93.5	93.5	97.4	97.5	98.3	98.7	98.8	99.3	99.4	99.4	99.5	99.5	99.5	99.5
≥ 400	78.6	90.7	93.5	93.5	97.5	97.6	98.6	99.0	99.2	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 300	78.6	90.7	93.5	93.5	97.5	97.6	98.6	99.0	99.2	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 200	78.6	90.7	93.5	93.5	97.5	97.6	98.6	99.0	99.2	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	78.6	90.7	93.5	93.5	97.5	97.6	98.6	99.0	99.2	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	78.6	90.7	93.5	93.5	97.5	97.6	98.6	99.0	99.2	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	35.7	41.2	41.6	41.6	42.4	42.4	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥ 20000	43.6	49.2	49.7	49.7	51.0	51.0	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 18000	44.3	49.9	50.5	50.5	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 16000	44.6	51.3	50.9	50.9	52.7	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 14000	46.9	52.9	53.8	53.8	55.6	55.7	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 12000	49.0	55.1	55.9	55.9	57.8	58.0	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 10000	52.7	59.2	60.1	60.1	62.2	62.3	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 9000	54.7	61.3	62.3	62.3	64.3	64.4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 8000	58.6	66.0	66.9	66.9	69.5	69.6	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 7000	61.4	68.3	69.2	69.2	71.7	71.9	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 6000	63.7	71.0	72.0	72.0	74.6	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 5000	63.7	71.0	72.0	72.0	74.6	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4500	63.6	71.6	72.6	72.6	75.2	75.3	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 4000	67.9	76.5	78.0	78.0	80.6	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500	68.6	77.6	77.3	79.0	81.8	81.9	82.5	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000	71.9	81.7	83.8	83.8	87.8	88.0	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2500	73.1	82.9	85.0	85.0	89.1	89.3	89.9	89.9	89.9	89.9	90.1	90.1	90.1	90.1	90.1	90.1
≥ 2000	74.9	85.1	87.7	87.7	92.0	92.3	92.9	92.9	93.1	93.1	93.2	93.2	93.3	93.3	93.3	93.3
≥ 1800	74.9	85.1	87.7	87.7	92.0	92.3	92.9	92.9	93.1	93.1	93.2	93.2	93.3	93.3	93.3	93.3
≥ 1500	75.7	86.2	88.9	88.9	93.4	93.8	94.4	94.5	94.6	94.6	94.7	94.7	94.9	94.9	94.9	94.9
≥ 1200	75.8	86.5	89.1	89.1	93.7	94.1	94.9	95.0	95.1	95.1	95.2	95.2	95.3	95.3	95.3	95.3
≥ 1000	76.5	87.8	90.7	90.7	95.7	96.4	97.5	97.6	97.8	97.8	98.0	98.0	98.1	98.1	98.1	98.1
≥ 900	76.5	88.1	91.3	91.0	96.0	96.8	97.8	98.0	98.2	98.2	98.3	98.3	98.4	98.4	98.4	98.4
≥ 800	76.5	88.1	91.1	91.1	96.2	96.9	98.0	98.2	98.6	98.6	98.7	98.7	98.8	98.8	98.8	98.8
≥ 700	76.6	88.3	91.3	91.3	96.3	97.0	98.1	98.3	98.7	98.7	98.8	98.8	98.9	98.9	98.9	98.9
≥ 600	76.6	88.4	91.4	91.4	96.4	97.1	98.4	98.9	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5
≥ 500	76.6	88.4	91.4	91.4	96.5	97.2	98.6	99.0	99.4	99.4	99.5	99.5	99.6	99.6	99.6	99.6
≥ 400	76.6	88.4	91.4	91.4	96.8	97.5	98.8	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 300	76.6	88.4	91.4	91.4	96.8	97.5	98.8	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 200	76.6	88.4	91.4	91.4	96.8	97.5	98.8	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	76.6	88.4	91.4	91.4	96.8	97.5	98.8	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0
0	76.6	88.4	91.4	91.4	96.8	97.5	98.8	99.4	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 835

GENERAL CLIMATOLOGY BRANCH  
OFFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4/1/72  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS U.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	35.1	41.1	42.4	42.4	44.0	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 20000	41.8	47.2	50.3	50.3	52.3	52.5	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 18000	42.4	47.8	51.0	51.0	53.1	53.2	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 16000	42.4	47.8	51.0	51.0	53.1	53.2	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 14000	43.5	48.9	52.1	52.1	54.1	54.3	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 12000	45.1	50.5	53.9	53.9	56.4	56.8	57.4	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 10000	48.4	53.9	57.4	57.4	61.1	61.4	62.0	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 9000	50.1	55.6	59.0	59.0	62.8	63.1	63.7	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 8000	52.2	58.0	61.4	61.4	65.4	65.7	66.5	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 7000	55.1	61.1	64.6	64.6	68.5	69.1	69.9	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 6000	55.1	61.2	64.7	64.7	68.6	69.2	70.1	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 5000	57.2	63.4	66.8	66.8	70.9	71.5	72.3	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 4500	57.4	63.5	67.1	67.1	71.1	71.7	72.6	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 4000	61.0	67.7	71.7	71.7	76.3	77.0	77.8	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3500	61.9	69.2	73.4	73.4	78.0	78.9	79.8	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000	65.4	73.3	78.1	78.1	84.2	85.3	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 2500	67.1	75.1	80.5	80.5	86.7	87.8	88.6	88.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 2000	68.4	76.8	82.4	82.4	88.9	89.9	90.8	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 1800	68.5	76.9	82.5	82.5	89.1	90.2	91.0	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1500	69.6	78.7	84.4	84.4	91.1	92.3	93.4	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 1200	69.9	79.3	85.1	85.1	92.0	93.2	94.4	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1000	70.4	79.9	86.0	86.0	93.2	94.7	96.5	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900	70.7	80.1	86.2	86.2	93.4	95.0	96.8	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 800	70.9	80.4	86.5	86.5	93.8	95.3	97.1	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700	70.9	80.4	86.5	86.5	94.1	95.7	97.5	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 600	70.9	80.4	86.5	86.5	94.3	95.8	97.6	98.3	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.8
≥ 500	70.9	80.4	86.6	86.6	94.4	95.9	98.0	99.0	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
≥ 400	70.9	80.4	86.6	86.6	94.5	96.0	98.1	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 300	70.9	80.4	86.6	86.6	94.5	96.0	98.1	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 200	70.9	80.4	86.6	86.6	94.5	96.0	98.1	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	70.9	80.4	86.6	86.6	94.5	96.0	98.1	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	70.9	80.4	86.6	86.6	94.5	96.0	98.1	99.5	99.9	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 835

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4112  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-24

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥0	≥0
NO CEILING	22.2	26.0	27.7	27.7	29.9	30.2	30.8	31.4	31.7	32.0	32.1	32.1	32.2	32.2	32.3	32.3
≥20000	27.8	32.4	34.6	34.6	37.5	37.9	38.7	39.5	39.8	40.1	40.2	40.3	40.4	40.4	40.5	40.5
≥18000	28.4	33.0	35.3	35.3	38.3	38.6	39.5	40.3	40.7	41.0	41.0	41.1	41.3	41.3	41.3	41.3
≥16000	28.5	33.1	35.4	35.4	38.4	38.8	39.7	40.5	40.8	41.1	41.2	41.3	41.4	41.5	41.5	41.5
≥14000	29.7	34.4	36.8	36.8	39.8	40.2	41.1	42.0	42.3	42.6	42.7	42.8	42.9	43.0	43.0	43.0
≥12000	31.2	36.7	38.5	38.5	41.7	42.1	43.1	43.9	44.3	44.7	44.8	44.8	45.0	45.0	45.0	45.0
≥10000	34.4	39.5	42.2	42.2	46.0	46.5	47.5	48.5	48.9	49.3	49.4	49.4	49.7	49.7	49.7	49.7
≥9000	35.6	40.8	43.6	43.6	47.4	47.9	48.9	49.9	50.3	50.7	50.8	50.8	51.0	51.1	51.1	51.1
≥8000	39.5	45.2	48.2	48.2	52.5	53.1	54.2	55.4	55.8	56.2	56.4	56.4	56.7	56.7	56.7	56.7
≥7000	41.6	47.7	50.7	50.7	55.2	55.9	57.1	58.2	58.7	59.0	59.2	59.3	59.5	59.5	59.6	59.6
≥6000	41.9	48.0	51.1	51.1	55.6	56.3	57.4	58.6	59.1	59.5	59.6	59.7	59.9	59.9	60.0	60.0
≥5000	43.4	49.7	52.8	52.8	57.7	58.4	59.6	60.9	61.3	61.7	61.9	61.9	62.2	62.2	62.2	62.2
≥4500	43.9	50.3	53.5	53.5	58.4	59.1	60.4	61.7	62.2	62.6	62.7	62.8	63.0	63.1	63.1	63.1
≥4000	46.6	53.6	57.3	57.3	62.6	63.3	64.6	66.0	66.5	66.9	67.0	67.1	67.3	67.3	67.4	67.4
≥3500	47.9	55.2	59.1	59.1	64.6	65.4	66.8	68.2	68.7	69.0	69.2	69.3	69.5	69.5	69.5	69.6
≥3000	52.2	60.6	65.2	65.2	72.0	73.0	74.6	76.1	76.7	77.1	77.3	77.5	77.7	77.7	77.8	77.8
≥2500	54.2	62.9	67.8	67.8	75.0	76.0	77.7	79.4	80.0	80.4	80.6	80.8	81.0	81.0	81.0	81.1
≥2000	56.1	65.4	70.6	70.6	78.5	79.6	81.5	83.2	83.9	84.4	84.6	84.7	85.0	85.0	85.1	85.1
≥1800	56.4	65.7	71.0	71.0	79.0	80.1	82.0	83.8	84.4	84.9	85.1	85.3	85.5	85.6	85.6	85.7
≥1500	57.9	67.6	73.2	73.2	81.8	82.9	84.9	86.9	87.5	88.0	88.3	88.4	88.7	88.7	88.8	88.8
≥1200	58.2	68.2	73.9	73.9	82.9	84.1	86.2	88.2	88.9	89.4	89.7	89.8	90.1	90.1	90.2	90.2
≥1000	59.0	69.4	75.4	75.4	85.3	86.7	89.2	91.6	92.4	93.0	93.3	93.4	93.8	93.8	93.8	93.9
≥900	59.3	69.7	75.8	75.8	85.7	87.2	89.6	92.1	92.9	93.4	93.7	93.9	94.2	94.3	94.3	94.4
≥800	59.6	70.1	76.3	76.3	86.4	88.0	90.5	93.1	93.9	94.5	94.8	95.0	95.3	95.4	95.4	95.5
≥700	59.8	70.3	76.7	76.7	87.0	88.6	91.2	93.8	94.6	95.2	95.5	95.7	96.1	96.1	96.2	96.3
≥600	59.9	70.5	77.0	77.0	87.6	89.1	91.9	94.7	95.5	96.1	96.5	96.7	97.1	97.1	97.1	97.2
≥500	60.1	70.7	77.4	77.4	88.3	89.9	92.8	95.7	96.6	97.2	97.7	97.9	98.3	98.3	98.4	98.5
≥400	60.1	70.8	77.5	77.5	88.6	90.2	93.0	96.1	97.1	97.8	98.3	98.5	99.0	99.0	99.1	99.3
≥300	60.1	70.8	77.5	77.5	88.6	90.2	93.1	96.2	97.2	98.0	98.5	98.7	99.2	99.3	99.4	99.6
≥200	60.1	70.8	77.5	77.5	88.6	90.2	93.1	96.3	97.2	98.1	98.7	98.9	99.4	99.5	99.7	99.9
≥100	60.1	70.8	77.5	77.5	88.6	90.2	93.1	96.3	97.2	98.1	98.7	98.9	99.4	99.5	99.7	99.9
0	60.1	70.8	77.5	77.5	88.6	90.2	93.1	96.3	97.2	98.1	98.7	98.9	99.5	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 6686

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 41121 OSAN AB KO

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-2300  
HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥1	≥.5	≥.25	≥.16	≥.1	≥.05	≥0
NO CEILING	27.4	30.7	35.5	35.5	41.5	41.8	43.8	44.4	44.6	45.3	45.3	45.4	45.5	45.5	45.6	45.8
≥ 20000	51.4	35.7	42.1	42.1	49.0	49.3	51.5	52.1	52.3	53.0	53.0	53.2	53.3	53.3	53.4	53.5
≥ 18000	31.9	36.2	42.5	42.5	49.5	49.8	52.0	52.6	52.8	53.5	53.5	53.6	53.8	53.8	53.9	54.0
≥ 16000	31.9	36.2	42.5	42.5	49.6	49.9	52.1	52.7	52.9	53.6	53.6	53.8	53.9	53.9	54.0	54.1
≥ 14000	32.7	36.3	42.7	42.7	49.8	50.2	52.3	52.9	53.2	53.9	53.9	54.0	54.1	54.1	54.2	54.4
≥ 12000	32.9	37.3	43.7	43.7	50.9	51.3	53.5	54.1	54.4	55.1	55.1	55.2	55.3	55.3	55.4	55.6
≥ 10000	36.4	41.5	49.2	49.2	56.9	57.3	60.0	60.6	60.8	61.5	61.5	61.6	61.8	61.8	61.9	62.0
≥ 9000	36.7	41.7	49.6	49.6	57.2	57.7	60.3	60.9	61.2	61.9	61.9	62.0	62.1	62.1	62.2	62.4
≥ 8000	39.5	45.0	53.5	53.5	61.8	62.2	65.0	65.6	65.8	66.8	66.9	67.0	67.1	67.1	67.3	67.4
≥ 7000	40.6	46.1	54.6	54.6	63.4	63.9	66.7	67.3	67.5	68.5	68.6	68.7	68.8	68.8	68.9	69.1
≥ 6000	43.7	46.4	54.8	54.8	63.7	64.2	66.9	67.5	67.7	68.7	68.8	68.9	69.1	69.1	69.2	69.3
≥ 5000	42.1	47.8	56.6	56.6	65.9	66.4	69.2	69.8	70.0	71.0	71.1	71.2	71.3	71.3	71.4	71.6
≥ 4500	42.4	49.1	57.1	57.1	66.4	66.9	69.7	70.3	70.5	71.4	71.7	71.8	71.9	71.9	72.0	72.2
≥ 4000	45.6	52.0	61.4	61.4	71.2	71.7	74.4	75.3	75.5	76.5	76.7	76.8	76.9	76.9	77.1	77.2
≥ 3500	46.4	53.7	62.5	62.5	73.0	73.6	76.3	77.3	77.5	78.5	78.7	78.9	79.0	79.0	79.1	79.2
≥ 3000	51.0	57.8	67.5	67.5	75.6	79.2	82.0	83.3	83.5	84.6	84.8	84.9	85.1	85.1	85.2	85.3
≥ 2500	52.4	59.7	70.0	70.0	81.8	82.8	85.5	86.9	87.1	88.2	88.4	88.5	88.6	88.6	88.8	88.9
≥ 2000	53.3	60.9	71.3	71.3	83.8	84.7	87.5	88.8	89.0	90.1	90.3	90.4	90.6	90.6	90.7	90.8
≥ 1800	54.0	62.2	72.6	72.6	85.1	86.0	88.9	90.2	90.4	91.5	91.8	91.9	92.0	92.0	92.1	92.2
≥ 1500	54.5	63.2	73.7	73.7	86.3	87.2	90.2	91.6	91.9	93.0	93.3	93.4	93.5	93.5	93.7	93.8
≥ 1200	54.6	63.4	74.4	74.4	87.2	88.4	91.4	92.8	93.1	94.1	94.5	94.6	94.7	94.7	94.9	95.0
≥ 1000	55.4	64.4	75.9	75.9	88.6	89.8	92.8	94.3	94.5	95.6	95.9	96.1	96.2	96.2	96.3	96.5
≥ 900	55.4	64.4	75.9	75.9	88.6	89.8	92.8	94.3	94.5	95.6	95.9	96.1	96.2	96.2	96.3	96.5
≥ 800	55.4	64.5	76.2	76.2	89.1	90.3	93.3	94.7	95.0	96.3	96.7	96.8	96.9	96.9	97.0	97.3
≥ 700	55.4	64.5	76.8	76.8	90.1	91.3	94.3	95.7	95.9	97.3	97.6	97.7	97.8	97.8	98.0	98.2
≥ 600	55.7	64.8	77.1	77.1	90.7	91.9	94.9	96.3	96.5	98.1	98.4	98.6	98.7	98.7	98.8	99.0
≥ 500	55.7	64.8	77.2	77.2	90.8	92.0	95.0	96.4	96.7	98.2	98.6	98.7	98.8	98.8	98.9	99.2
≥ 400	55.7	64.8	77.2	77.2	90.8	92.0	95.0	96.4	96.9	98.4	98.8	98.9	99.0	99.2	99.3	99.5
≥ 300	55.7	64.8	77.2	77.2	90.8	92.0	95.0	96.5	97.0	98.6	98.9	99.0	99.2	99.3	99.4	99.6
≥ 200	55.7	64.8	77.2	77.2	90.8	92.0	95.0	96.5	97.0	98.8	99.2	99.3	99.4	99.5	99.6	99.9
≥ 100	55.7	64.8	77.2	77.2	90.8	92.0	95.0	96.5	97.0	98.8	99.2	99.3	99.4	99.5	99.6	99.9
≥ 0	55.7	64.8	77.2	77.2	90.8	92.0	95.0	96.5	97.0	98.8	99.2	99.3	99.5	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4112  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

AUG  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	27.5	21.8	24.1	24.1	27.9	29.4	31.4	31.9	32.6	34.2	34.8	34.8	35.0	35.1	35.5	35.9
≥ 20000	23.5	25.4	28.5	28.5	33.1	34.8	37.4	37.9	38.6	40.3	40.9	40.9	41.4	41.5	41.8	42.2
≥ 18000	24.7	25.8	28.9	28.9	33.5	35.1	37.8	38.2	39.0	40.6	41.2	41.2	41.7	41.8	42.2	42.6
≥ 16000	24.7	25.8	28.9	28.9	33.5	35.1	37.8	38.2	39.0	40.6	41.2	41.2	41.7	41.8	42.2	42.6
≥ 14000	24.7	25.8	28.9	28.9	33.5	35.1	37.8	38.2	39.0	40.6	41.2	41.2	41.7	41.8	42.2	42.6
≥ 12000	24.9	26.9	30.0	30.0	34.8	36.5	39.3	39.8	40.5	42.2	42.8	42.8	43.3	43.4	43.8	44.1
≥ 10000	28.3	30.9	34.8	34.8	40.9	42.6	46.0	46.6	47.4	49.0	49.6	49.6	50.1	50.2	50.6	51.0
≥ 9000	28.4	31.1	35.1	35.1	41.2	42.9	46.4	47.0	47.7	49.4	50.0	50.0	50.5	50.6	51.0	51.3
≥ 8000	32.4	35.5	39.7	39.7	46.5	48.4	52.0	52.9	53.6	55.4	56.1	56.4	56.8	57.0	57.3	57.7
≥ 7000	33.5	36.9	41.1	41.1	48.7	50.6	54.2	55.0	55.8	57.6	58.3	58.5	59.0	59.2	59.6	60.0
≥ 6000	33.5	36.9	41.1	41.1	48.7	50.6	54.2	55.0	55.8	57.6	58.3	58.5	59.0	59.2	59.6	60.0
≥ 5000	34.7	38.2	42.6	42.6	50.6	52.5	56.1	57.0	57.7	59.5	60.2	60.4	60.9	61.2	61.5	61.9
≥ 4500	34.8	38.4	42.8	42.8	51.0	52.9	56.5	57.3	58.0	59.8	60.6	60.8	61.3	61.5	61.9	62.2
≥ 4000	38.7	42.1	46.5	46.5	55.3	57.2	60.8	61.8	62.5	64.3	65.1	65.3	65.8	66.1	66.4	66.8
≥ 3500	39.7	43.2	48.1	48.0	56.8	58.8	62.5	63.8	64.5	66.3	67.1	67.4	67.9	68.1	68.5	68.8
≥ 3000	43.7	47.5	53.0	53.0	63.1	65.0	69.4	71.1	71.8	73.7	74.6	74.9	75.4	75.7	76.0	76.4
≥ 2500	45.7	49.8	55.8	55.8	66.2	68.1	72.7	74.3	75.1	77.0	77.8	78.2	78.7	78.9	79.3	79.6
≥ 2000	45.9	51.1	57.9	57.9	69.3	71.2	75.8	77.5	78.4	80.5	81.3	81.7	82.1	82.4	82.7	83.1
≥ 1800	46.0	51.3	58.5	58.5	70.1	72.2	76.7	78.5	79.5	81.5	82.4	82.7	83.2	83.5	83.8	84.1
≥ 1500	46.4	52.0	59.4	59.4	71.2	73.4	78.3	80.1	81.1	83.1	83.9	84.3	85.0	85.3	85.6	86.0
≥ 1200	46.8	52.5	60.2	60.2	72.2	74.3	79.6	81.4	82.4	84.4	85.3	85.6	86.3	86.6	86.9	87.3
≥ 1000	48.1	54.0	61.8	61.8	74.0	76.3	81.9	83.8	84.9	87.1	87.9	88.2	89.0	89.2	89.6	89.9
≥ 900	48.2	54.1	62.0	62.0	74.5	76.7	82.4	84.4	85.5	87.6	88.5	88.8	89.6	89.8	90.2	90.5
≥ 800	48.4	54.4	62.6	62.6	75.3	77.8	83.7	85.9	86.9	89.3	90.3	90.6	91.4	91.6	92.0	92.3
≥ 700	48.4	54.4	62.7	62.7	75.7	78.2	84.3	86.7	87.8	90.2	91.1	91.5	92.2	92.4	92.8	93.2
≥ 600	48.6	54.6	63.5	63.5	76.6	79.5	85.6	88.1	89.2	91.6	92.6	92.9	93.6	93.9	94.2	94.6
≥ 500	48.6	54.6	63.5	63.5	76.9	79.9	86.3	89.1	90.8	93.2	94.1	94.5	95.2	95.4	95.8	96.2
≥ 400	48.7	54.7	63.7	63.7	77.0	80.0	86.5	89.3	91.0	93.6	94.6	95.0	95.7	96.0	96.4	96.9
≥ 300	48.7	54.7	63.7	63.7	77.0	80.0	86.5	89.3	91.0	93.6	94.6	95.0	95.7	96.0	96.4	96.9
≥ 200	48.7	54.7	63.7	63.7	77.1	80.2	86.9	90.0	91.7	94.6	95.7	96.0	97.1	97.5	97.8	98.9
≥ 100	48.7	54.7	63.7	63.7	77.1	80.2	86.9	90.0	91.7	94.6	95.7	96.0	97.1	97.5	97.8	99.4
≥ 0	48.7	54.7	63.7	63.7	77.1	80.2	86.9	90.0	91.7	94.6	95.7	96.0	97.2	97.6	98.0	100.0

TOTAL NUMBER OF OBSERVATIONS 839

7  
CLIMATE CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4112  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1600-2800  
HOURS (LT)

CEILING FEET	VISIBILITY - STATUTE MILES:															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0.1	≥ 0	≥ 0
NO CEILING	16.7	17.9	19.5	19.5	22.1	22.6	23.8	26.4	27.0	27.6	28.2	28.2	29.2	29.7	29.8	30.2
≥ 20000	18.8	20.9	23.1	23.1	26.6	27.0	28.8	32.0	32.6	33.2	33.9	34.0	35.0	35.5	35.6	35.9
≥ 18000	18.8	20.9	23.1	23.1	26.6	27.0	28.8	32.0	32.6	33.2	33.9	34.0	35.0	35.5	35.6	35.9
≥ 16000	18.8	20.9	23.1	23.1	26.6	27.0	28.8	32.0	32.6	33.2	33.9	34.0	35.0	35.5	35.6	35.9
≥ 14000	19.0	21.3	23.6	23.6	27.2	27.6	29.4	32.7	33.4	34.0	34.7	34.9	35.8	36.4	36.5	36.9
≥ 12000	20.0	22.4	24.8	24.8	28.5	29.3	31.1	34.9	35.6	36.2	36.9	37.0	38.0	38.6	38.7	39.1
≥ 10000	22.5	26.0	29.3	29.3	34.3	35.2	37.3	41.6	42.3	43.4	44.1	44.2	45.4	46.0	46.2	46.5
≥ 9000	22.7	26.2	29.6	29.6	34.5	35.5	37.5	41.8	42.5	43.6	44.4	44.5	45.7	46.3	46.4	46.8
≥ 8000	25.7	30.5	34.7	34.7	40.1	41.1	43.8	48.4	49.4	50.6	51.3	51.4	52.8	53.4	53.5	53.8
≥ 7000	27.0	32.0	36.3	36.3	42.1	43.0	45.7	50.5	51.4	52.6	53.4	53.5	54.8	55.4	55.5	55.9
≥ 6000	27.0	32.0	36.3	36.3	42.1	43.0	45.7	50.5	51.4	52.6	53.4	53.5	54.8	55.4	55.5	55.9
≥ 5000	28.1	33.2	37.5	37.5	43.3	44.2	46.9	51.7	52.6	53.8	54.6	54.7	56.0	56.6	56.7	57.1
≥ 4500	28.4	33.4	37.7	37.7	43.5	44.5	47.0	51.9	52.9	54.1	54.8	54.9	56.3	56.9	57.0	57.3
≥ 4000	31.3	36.3	40.9	40.9	47.2	48.2	51.2	56.4	57.3	58.7	59.4	59.5	60.8	61.4	61.5	61.9
≥ 3500	33.3	38.5	43.5	43.5	51.4	51.4	54.4	59.6	60.6	61.9	62.7	62.9	64.2	64.9	65.0	65.4
≥ 3000	36.4	43.1	49.2	49.2	56.6	57.7	60.9	66.5	67.4	68.9	69.7	69.8	71.3	72.0	72.1	72.5
≥ 2500	38.3	45.0	51.2	51.2	59.1	60.2	63.6	69.6	70.6	72.0	73.0	73.1	74.8	75.5	75.6	76.0
≥ 2000	40.1	47.5	54.4	54.4	63.3	64.4	68.1	74.5	75.5	77.3	78.4	78.5	80.3	81.0	81.1	81.5
≥ 1800	40.3	47.7	54.8	54.8	63.7	64.8	68.6	75.0	76.1	77.9	79.0	79.1	80.9	81.6	81.7	82.1
≥ 1500	40.6	48.2	56.1	56.1	65.1	66.2	70.3	76.9	78.0	79.8	80.9	81.0	82.9	83.7	83.8	84.1
≥ 1200	40.7	48.4	56.9	56.9	66.6	67.7	71.9	78.6	79.7	81.6	82.7	82.8	84.7	85.5	85.6	85.9
≥ 1000	40.9	48.6	57.2	57.2	67.1	68.3	73.0	80.0	81.1	83.3	84.4	84.5	86.4	87.1	87.3	87.6
≥ 900	40.9	48.6	57.3	57.3	67.2	68.4	73.2	80.4	81.6	83.8	84.9	85.0	86.9	87.6	87.7	88.1
≥ 800	40.9	48.7	57.7	57.7	67.9	69.4	74.3	82.1	83.5	85.7	87.0	87.1	89.2	89.9	90.0	90.4
≥ 700	40.9	48.9	57.9	57.9	68.4	69.8	74.9	82.9	84.4	86.8	88.1	88.2	90.3	91.1	91.2	91.8
≥ 600	40.9	48.9	57.9	57.9	68.4	69.8	75.1	83.4	84.9	87.3	88.6	88.7	90.7	91.6	91.7	92.3
≥ 500	40.9	48.9	58.1	58.1	68.9	70.4	76.0	84.4	86.2	88.9	90.4	90.5	92.5	93.4	93.5	94.5
≥ 400	41.0	49.0	58.2	58.2	69.1	70.7	76.4	85.3	87.3	90.5	91.9	92.1	94.1	95.0	95.1	96.2
≥ 300	41.0	49.0	58.2	58.2	69.1	70.7	76.4	85.3	87.3	90.7	92.4	92.5	94.8	95.8	96.2	97.7
≥ 200	41.0	49.0	58.2	58.2	69.1	70.7	76.4	85.3	87.3	90.7	92.7	92.8	95.2	96.2	97.0	98.8
≥ 100	41.0	49.0	58.2	58.2	69.1	70.7	76.4	85.3	87.3	90.7	92.7	92.8	95.3	96.3	97.1	99.6
≥ 0	41.0	49.0	58.2	58.2	69.1	70.7	76.4	85.3	87.3	90.7	92.7	92.8	95.4	96.5	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS 832

GENERAL CLIMATOLOGY BRANCH  
AFETAC  
METEOROLOGICAL SERVICE/MAC

## CEILING VERSUS VISIBILITY

4.1 2  
STATION

CSAN AB KC

STATION NAME

73-81

YEARS

AUG

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS UST

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥0
NO CEILING	24.3	27.5	28.4	28.4	30.1	30.3	30.9	30.9	31.0	31.1	31.3	31.3	31.3	31.3	31.3	31.3
≥ 20000	24.9	32.9	33.9	33.9	36.5	36.8	37.6	37.6	37.7	37.8	38.0	38.0	38.0	38.0	38.0	38.0
IV 18000	29.1	33.1	34.0	34.0	36.6	36.9	37.7	37.7	37.8	38.0	38.1	38.1	38.1	38.1	38.1	38.1
IV 16000	29.1	33.1	34.0	34.0	36.6	36.9	37.7	37.7	37.8	38.0	38.1	38.1	38.1	38.1	38.1	38.1
IV 14000	30.4	34.9	35.8	35.8	38.4	38.7	39.5	39.5	39.6	39.8	39.9	39.9	39.9	39.9	39.9	39.9
IV 12000	31.7	36.3	37.4	37.4	40.6	40.8	41.7	41.7	41.8	41.9	42.0	42.0	42.0	42.0	42.0	42.0
IV 10000	36.2	41.4	42.9	42.9	46.5	46.7	47.8	47.8	47.9	48.0	48.1	48.1	48.1	48.1	48.1	48.1
IV 9000	36.2	41.6	43.1	43.1	46.7	46.9	48.0	48.0	48.1	48.3	48.4	48.4	48.4	48.4	48.4	48.4
IV 8000	42.5	49.0	51.3	51.3	55.7	56.0	57.1	57.5	57.6	57.7	57.8	57.8	57.8	57.8	57.8	57.8
IV 7000	43.5	50.2	52.0	52.6	57.1	57.5	58.6	59.0	59.2	59.3	59.4	59.4	59.4	59.4	59.4	59.4
IV 6000	43.5	51.4	52.8	52.8	57.4	57.7	58.8	59.3	59.4	59.5	59.6	59.6	59.6	59.6	59.6	59.6
IV 5000	43.7	51.4	53.8	53.8	58.4	58.8	59.9	60.4	60.5	60.6	60.7	60.7	60.7	60.7	60.7	60.7
IV 4500	44.0	51.6	54.7	54.7	58.7	59.0	60.1	60.6	60.7	60.8	61.0	61.0	61.0	61.0	61.0	61.0
IV 4000	47.7	55.7	58.4	58.4	63.6	64.0	65.4	66.1	66.2	66.3	66.5	66.5	66.5	66.5	66.5	66.5
IV 3500	51.0	59.8	62.8	62.8	67.9	68.3	69.7	70.4	70.5	70.7	70.8	70.8	70.8	70.8	70.8	70.8
IV 3000	56.9	66.7	70.4	70.4	76.7	76.5	78.0	78.9	79.2	79.3	79.4	79.4	79.4	79.4	79.4	79.4
IV 2500	59.9	70.3	74.3	74.3	80.4	81.0	82.5	83.5	83.7	84.0	84.1	84.1	84.1	84.1	84.1	84.1
IV 2000	63.1	74.3	78.4	78.4	84.6	85.1	87.1	88.3	88.5	88.7	88.9	88.9	88.9	88.9	88.9	88.9
IV 1800	63.4	74.5	78.8	78.6	84.9	85.5	87.5	88.9	89.1	89.3	89.5	89.5	89.5	89.5	89.5	89.5
IV 1500	65.3	76.6	81.2	81.2	87.8	88.7	90.8	92.2	92.5	92.8	92.9	92.9	92.9	92.9	92.9	92.9
IV 1200	65.6	77.5	82.0	82.0	88.9	89.8	91.9	93.3	93.5	94.0	94.1	94.1	94.1	94.1	94.1	94.1
IV 1000	66.1	78.1	83.1	83.0	91.3	91.4	93.4	95.4	95.7	96.2	96.4	96.4	96.4	96.4	96.4	96.4
IV 900	66.3	78.1	83.1	83.0	90.3	91.4	93.5	95.6	95.8	96.3	96.5	96.5	96.5	96.5	96.5	96.5
IV 800	66.2	78.3	83.2	83.2	91.8	91.9	94.3	96.3	96.5	97.0	97.2	97.4	97.4	97.4	97.4	97.4
IV 700	66.2	78.4	83.4	83.4	91.1	92.2	94.6	96.8	97.0	97.5	97.7	97.8	97.8	97.8	97.8	97.8
IV 600	66.3	78.6	83.6	83.6	91.5	92.6	95.2	97.8	98.2	98.7	98.9	99.0	99.0	99.0	99.0	99.0
IV 500	66.3	78.6	83.6	83.6	91.5	92.7	95.3	98.1	98.4	98.9	99.3	99.4	99.4	99.4	99.4	99.4
IV 400	66.3	78.6	83.6	83.6	91.5	92.7	95.3	98.1	98.4	98.9	99.3	99.5	99.5	99.5	99.5	99.5
IV 300	66.3	78.6	83.6	83.6	91.5	92.7	95.3	98.2	98.6	99.0	99.4	99.8	99.8	99.8	99.8	99.8
IV 200	66.3	78.6	83.6	83.6	91.5	92.7	95.3	98.2	98.6	99.2	99.5	99.9	99.9	99.9	99.9	100.0
IV 100	66.3	78.6	83.6	83.6	91.5	92.7	95.3	98.2	98.6	99.2	99.5	99.9	99.9	99.9	99.9	100.0
IV 0	66.3	78.6	83.6	83.6	91.5	92.7	95.3	98.2	98.6	99.2	99.5	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 835



JOURNAL CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 2  
STATION

104N AB KO

STATION NAME

73-81

YEARS

AUG  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .1	≥ .05	≥ .03	≥ .01	≥ 0
NO CEILING	51.7	33.7	36.1	36.1	35.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
≥ 20000	34.4	43.2	43.6	43.6	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
IV 18000	23.5	43.7	44.1	44.1	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 16000	34.8	43.7	44.1	44.1	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
IV 14000	11.1	45.7	45.4	46.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 12000	3.4	43.5	43.9	48.9	45.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 10000	48.7	52.7	53.4	53.4	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 9000	47.1	53.0	53.3	53.8	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
IV 8000	33.2	60.1	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 7000	55.7	62.0	63.4	63.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IV 6000	55.7	62.0	63.4	63.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IV 5000	55.7	63.1	64.5	64.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
IV 4500	56.1	63.7	65.1	65.1	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
IV 4000	59.7	67.9	69.5	69.5	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
IV 3500	61.9	71.1	72.8	72.8	74.6	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
IV 3000	71.0	81.6	83.9	83.9	85.7	85.7	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
IV 2500	73.5	84.6	87.0	87.0	88.8	88.8	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 2000	75.9	87.8	90.3	90.3	92.2	92.4	92.8	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3
IV 1800	76.2	88.2	90.7	90.7	92.6	92.8	93.3	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8
IV 1500	78.9	91.0	93.7	93.7	95.8	96.2	96.7	97.0	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1
IV 1200	79.1	91.3	94.0	94.0	96.3	96.7	97.1	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6
IV 1000	74.7	91.9	94.9	94.9	97.5	98.0	98.4	99.0	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2
IV 900	79.8	92.3	95.0	95.0	97.6	98.1	98.6	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
IV 800	79.9	92.1	95.1	95.1	97.7	98.2	98.7	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
IV 700	79.9	92.1	95.1	95.1	97.7	98.2	98.7	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
IV 600	80.3	92.2	95.2	95.2	97.8	98.4	98.9	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
IV 500	80.0	92.2	95.2	95.2	97.8	98.4	98.9	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	80.0	92.2	95.2	95.2	97.8	98.4	98.9	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	80.0	92.2	95.2	95.2	97.8	98.4	98.9	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	80.0	92.2	95.2	95.2	97.8	98.4	98.9	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	80.0	92.2	95.2	95.2	97.8	98.4	98.9	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	80.0	92.2	95.2	95.2	97.8	98.4	98.9	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

ALBANY CLIMATOLOGY BRANCH  
AFETAC  
ALBANY WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4/1/72  
STATION

OSAN AB XO

STATION NAME

73-81

YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1530-1700  
HOURS (LT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	35.9	41.8	41.1	41.1	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 20000	45.2	51.1	51.7	51.9	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 18000	45.9	51.8	52.6	52.6	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 16000	46.1	51.9	52.8	52.8	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 14000	47.5	53.3	54.2	54.2	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 12000	51.1	57.2	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 10000	55.1	62.1	63.0	63.0	63.8	63.8	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 9000	55.7	62.7	63.8	63.8	64.5	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 8000	62.0	70.1	71.3	71.3	72.1	72.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 7000	63.3	72.5	73.7	73.7	74.8	74.9	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 6000	63.5	72.7	73.9	73.9	75.1	75.2	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 5000	64.6	74.2	75.4	75.4	76.9	77.0	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4500	65.7	74.5	75.7	75.7	77.3	77.4	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 4000	67.1	77.2	78.3	78.3	80.0	80.1	80.9	80.9	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0
≥ 3500	68.9	79.5	80.7	80.7	82.4	82.7	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.5
≥ 3000	74.9	86.6	87.8	87.8	89.8	90.1	90.9	90.9	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0
≥ 2500	76.3	88.3	89.6	89.6	91.9	92.1	92.9	92.9	92.9	92.9	93.1	93.1	93.1	93.1	93.1	93.1
≥ 2000	77.5	89.6	91.0	91.0	93.8	94.1	95.2	95.3	95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800	77.8	89.8	91.3	91.3	94.0	94.4	95.5	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1500	78.9	91.0	92.5	92.5	95.2	95.6	96.7	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1200	79.2	91.3	92.7	92.7	95.5	95.8	96.9	97.2	97.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000	79.9	92.1	93.5	93.5	96.8	97.1	98.2	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900	80.1	92.1	93.7	93.7	97.0	97.4	98.4	98.8	98.8	99.0	99.2	99.2	99.2	99.3	99.3	99.3
≥ 800	80.1	92.2	94.3	94.3	97.4	97.7	98.8	99.2	99.2	99.4	99.5	99.5	99.5	99.6	99.6	99.6
≥ 700	80.1	92.2	94.3	94.3	97.4	97.7	98.9	99.3	99.3	99.5	99.6	99.6	99.6	99.8	99.8	99.8
≥ 600	80.1	92.2	94.3	94.3	97.4	97.7	98.9	99.3	99.3	99.5	99.6	99.6	99.6	99.8	99.8	99.8
≥ 500	80.1	92.2	94.3	94.3	97.4	97.7	99.0	99.4	99.4	99.6	99.9	99.9	99.9	100.0	100.0	100.0
≥ 400	80.1	92.2	94.3	94.3	97.4	97.7	99.0	99.4	99.4	99.6	99.9	99.9	99.9	100.0	100.0	100.0
≥ 300	80.1	92.2	94.3	94.3	97.4	97.7	99.0	99.4	99.4	99.6	99.9	99.9	99.9	100.0	100.0	100.0
≥ 200	80.1	92.2	94.3	94.3	97.4	97.7	99.0	99.4	99.4	99.6	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	80.1	92.2	94.3	94.3	97.4	97.7	99.0	99.4	99.4	99.6	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	80.1	92.2	94.3	94.3	97.4	97.7	99.0	99.4	99.4	99.6	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 236

GENERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4012  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥⅓	≥⅒	≥0
NO CEILING	36.4	43.4	43.8	43.8	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥20000	46.2	54.2	54.8	54.8	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
IV ≥18000	46.2	54.4	55.7	55.0	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
IV ≥16000	46.8	55.0	55.7	55.7	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV ≥14000	48.1	56.3	57.0	57.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV ≥12000	52.4	60.9	61.6	61.6	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
IV ≥10000	57.5	66.8	67.5	67.5	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV ≥9000	57.8	67.1	67.9	67.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV ≥8000	61.9	72.0	73.1	73.1	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
IV ≥7000	62.5	73.0	74.1	74.1	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV ≥6000	62.5	73.0	74.1	74.1	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV ≥5000	63.9	74.7	75.7	75.7	78.5	78.6	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
IV ≥4500	64.5	75.3	76.3	76.3	79.1	79.2	79.3	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
IV ≥4000	66.3	77.8	78.9	78.9	81.7	81.8	82.0	82.4	82.8	82.9	83.0	83.0	83.0	83.0	83.0	83.0
IV ≥3500	67.4	79.0	80.2	80.2	83.3	83.4	83.6	84.1	84.5	84.6	84.7	84.7	84.7	84.7	84.7	84.7
IV ≥3000	71.3	83.8	85.3	85.3	89.0	89.1	89.4	90.2	90.6	90.7	90.8	90.8	90.8	90.8	90.8	90.8
IV ≥2500	72.6	85.3	87.0	87.0	90.8	91.2	91.4	92.4	92.7	92.8	93.0	93.0	93.0	93.0	93.0	93.0
IV ≥2000	74.6	87.6	89.7	89.7	93.8	94.1	94.4	95.3	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9
IV ≥1800	74.6	87.7	89.8	89.8	93.9	94.3	94.5	95.5	95.8	96.1	96.2	96.2	96.2	96.2	96.2	96.2
IV ≥1500	74.8	88.1	90.2	90.2	94.5	94.9	95.1	96.1	96.5	96.8	97.0	97.0	97.0	97.0	97.0	97.0
IV ≥1200	74.9	88.2	90.3	90.3	94.9	95.2	95.5	96.5	97.0	97.3	97.5	97.5	97.5	97.5	97.5	97.5
IV ≥1000	74.9	88.2	90.6	90.6	95.2	95.6	96.3	97.4	98.0	98.2	98.4	98.4	98.4	98.4	98.4	98.4
IV ≥900	75.3	88.5	90.9	90.9	95.8	96.2	97.0	98.1	98.7	98.9	99.2	99.2	99.2	99.2	99.2	99.2
IV ≥800	75.1	88.6	91.0	91.0	95.9	96.3	97.1	98.2	98.8	99.0	99.3	99.3	99.3	99.3	99.3	99.3
IV ≥700	75.3	88.8	91.2	91.2	96.1	96.4	97.4	98.4	99.0	99.3	99.5	99.5	99.5	99.5	99.5	99.5
IV ≥600	75.3	88.8	91.2	91.2	96.4	96.8	97.7	98.9	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥500	75.3	88.8	91.2	91.2	96.4	96.8	97.7	98.9	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥400	75.3	88.8	91.2	91.2	96.4	96.8	97.7	98.9	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥300	75.3	88.8	91.2	91.2	96.4	96.8	97.7	98.9	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥200	75.3	88.8	91.2	91.2	96.4	96.8	97.7	98.9	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥100	75.3	88.8	91.2	91.2	96.4	96.8	97.7	98.9	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥0	75.3	88.8	91.2	91.2	96.4	96.8	97.7	98.9	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
4712

OSAN AB KO

STATION NAME

73-81

YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (EST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/8	≥0.01	≥0
NO CEILING	39.3	44.7	45.8	45.8	48.9	48.9	49.1	49.5	49.6	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 20000	46.2	52.7	54.2	54.2	58.1	58.1	58.3	58.7	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 18000	46.2	52.7	54.4	54.4	58.2	58.2	58.5	58.9	59.0	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 16000	46.2	52.7	54.4	54.4	58.4	58.4	58.8	59.1	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 14000	46.7	53.2	54.8	54.8	58.9	58.9	59.3	59.6	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 12000	49.3	55.6	57.3	57.3	61.6	61.6	62.0	62.4	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 10000	53.3	60.3	62.4	62.4	66.8	66.8	67.3	67.6	67.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 9000	54.0	61.1	63.1	63.1	67.5	67.5	68.0	68.3	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 8000	58.3	65.6	67.7	67.7	72.6	72.6	73.4	73.7	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 7000	59.3	66.5	68.7	68.7	74.1	74.1	74.8	75.1	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 6000	59.4	66.8	68.9	68.9	74.3	74.3	75.0	75.4	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 5000	60.2	67.9	70.0	70.0	75.6	75.6	76.3	76.7	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 4500	60.3	68.1	70.4	70.4	76.0	76.0	76.8	77.2	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4000	63.2	71.8	74.4	74.4	80.3	80.3	81.2	81.7	82.0	82.2	82.2	82.2	82.3	82.3	82.3	82.3
≥ 3500	64.9	73.8	76.6	76.6	83.4	83.4	84.3	84.8	85.1	85.3	85.3	85.3	85.4	85.4	85.4	85.4
≥ 3000	67.7	77.2	80.0	80.0	87.1	87.1	88.1	88.9	89.1	89.4	89.4	89.4	89.5	89.5	89.5	89.5
≥ 2500	70.0	79.7	82.6	82.6	90.0	90.2	91.3	92.1	92.4	92.6	92.6	92.6	92.7	92.7	92.7	92.7
≥ 2000	71.0	80.8	83.8	83.8	91.4	91.6	92.7	93.7	93.9	94.1	94.1	94.1	94.3	94.3	94.3	94.3
≥ 1800	71.2	81.0	84.0	84.0	91.6	92.0	93.1	94.0	94.3	94.5	94.5	94.5	94.6	94.6	94.6	94.6
≥ 1500	71.4	81.2	84.2	84.2	92.1	92.6	93.7	94.7	95.0	95.2	95.2	95.2	95.3	95.3	95.3	95.3
≥ 1200	71.4	81.2	84.3	84.3	92.4	93.1	94.1	95.2	95.5	95.7	95.7	95.7	95.8	95.8	95.8	95.8
≥ 1000	72.3	82.3	85.7	85.7	94.0	94.7	96.1	97.1	97.4	97.7	97.7	97.7	97.8	97.8	97.8	97.8
≥ 900	72.4	82.6	85.9	85.9	94.5	95.2	96.5	97.6	97.8	98.2	98.2	98.2	98.3	98.3	98.3	98.3
≥ 800	72.6	82.8	86.5	86.5	95.1	95.8	97.1	98.2	98.4	98.8	98.8	98.8	98.9	98.9	98.9	98.9
≥ 700	72.9	83.0	86.7	86.7	95.3	96.1	97.4	98.4	98.7	99.0	99.0	99.0	99.2	99.2	99.2	99.2
≥ 600	72.9	83.0	86.7	86.7	95.8	96.5	97.8	98.9	99.2	99.5	99.5	99.5	99.6	99.6	99.6	99.6
≥ 500	72.9	83.0	86.7	86.7	95.8	96.5	98.0	99.0	99.3	99.6	99.6	99.6	99.8	99.8	99.8	99.8
≥ 400	72.9	83.0	86.7	86.7	95.8	96.5	98.0	99.0	99.3	99.6	99.6	99.6	99.8	99.8	99.8	99.8
≥ 300	73.0	83.2	86.9	86.9	96.1	96.8	98.2	99.3	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 200	73.0	83.2	86.9	86.9	96.1	96.8	98.2	99.3	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	73.0	83.2	86.9	86.9	96.1	96.8	98.2	99.3	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	73.0	83.2	86.9	86.9	96.1	96.8	98.2	99.3	99.5	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4-122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-24

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.7	≥2	≥1.7	≥1.4	≥1	≥.7	≥.5	≥.3	≥.2	≥.1	≥0
NO CEILING	29.0	32.4	34.3	34.3	36.7	37.0	37.8	38.3	38.5	38.9	39.1	39.1	39.3	39.3	39.4	39.5
≥ 20000	34.9	39.6	41.5	41.5	44.6	45.0	45.9	46.5	46.7	47.1	47.3	47.3	47.5	47.6	47.7	47.8
≥ 18000	35.1	39.8	41.8	41.8	44.9	45.3	46.2	46.8	47.0	47.4	47.6	47.6	47.8	47.9	48.0	48.1
≥ 16000	35.2	39.9	41.9	41.9	45.1	45.4	46.4	46.9	47.2	47.6	47.7	47.8	48.0	48.1	48.1	48.2
≥ 14000	35.1	40.9	42.9	42.9	46.1	46.4	47.4	48.0	48.2	48.6	48.8	48.8	49.0	49.1	49.2	49.3
≥ 12000	38.2	43.1	45.2	45.2	48.5	48.9	49.9	50.6	50.8	51.2	51.4	51.4	51.6	51.7	51.8	51.9
≥ 10000	42.1	47.7	50.3	50.3	54.1	54.5	55.7	56.5	56.7	57.2	57.4	57.4	57.6	57.7	57.8	57.9
≥ 9000	42.3	48.1	50.8	50.8	54.5	54.9	56.2	56.9	57.2	57.6	57.8	57.8	58.1	58.1	58.2	58.3
≥ 8000	47.3	53.5	56.6	56.6	61.9	61.3	62.7	63.6	63.8	64.4	64.6	64.6	64.9	65.0	65.0	65.1
≥ 7000	48.1	54.9	58.1	58.1	62.7	63.2	64.5	65.4	65.7	66.2	66.4	66.5	66.7	66.8	66.9	67.0
≥ 6000	48.2	55.0	58.2	58.2	62.9	63.3	64.7	65.6	65.9	66.4	66.6	66.7	66.9	67.0	67.1	67.2
≥ 5000	49.1	56.3	59.5	59.5	64.4	64.9	66.3	67.2	67.5	68.0	68.2	68.3	68.5	68.6	68.7	68.8
≥ 4500	49.4	56.7	59.9	59.9	64.8	65.3	66.7	67.6	67.9	68.4	68.6	68.7	68.9	69.1	69.1	69.2
≥ 4000	52.3	60.1	63.6	63.6	69.9	69.3	70.9	72.0	72.3	72.9	73.2	73.2	73.5	73.6	73.7	73.8
≥ 3500	54.1	62.3	65.9	65.9	71.5	72.0	73.7	74.8	75.1	75.7	76.0	76.0	76.3	76.4	76.5	76.6
≥ 3000	59.1	68.1	72.2	72.2	78.3	78.8	80.6	82.0	82.3	83.0	83.2	83.3	83.6	83.7	83.8	83.9
≥ 2500	61.0	70.4	74.7	74.7	81.1	81.8	83.6	85.1	85.5	86.1	86.4	86.5	86.8	86.9	87.0	87.1
≥ 2000	62.7	72.5	77.1	77.1	84.0	84.7	86.7	88.3	88.7	89.4	89.7	89.8	90.1	90.2	90.3	90.4
≥ 1800	62.9	72.8	77.6	77.6	84.5	85.3	87.3	88.9	89.3	90.0	90.4	90.4	90.7	90.9	90.9	91.0
≥ 1500	63.9	74.0	78.9	78.9	86.0	86.9	89.0	90.7	91.1	91.8	92.2	92.3	92.6	92.7	92.8	92.9
≥ 1200	64.1	74.3	79.4	79.4	86.7	87.6	89.8	91.6	92.0	92.7	93.1	93.2	93.5	93.7	93.7	93.8
≥ 1000	64.7	74.9	80.3	80.3	88.0	88.9	91.3	93.2	93.7	94.5	94.8	94.9	95.3	95.4	95.5	95.6
≥ 900	64.7	75.1	80.5	80.5	88.2	89.2	91.6	93.6	94.0	94.8	95.2	95.3	95.6	95.8	95.9	96.0
≥ 800	64.9	75.2	80.8	80.8	88.7	89.7	92.2	94.2	94.7	95.6	96.1	96.1	96.5	96.6	96.7	96.8
≥ 700	64.9	75.3	81.0	81.0	89.0	90.0	92.0	94.7	95.2	96.1	96.5	96.6	97.0	97.2	97.2	97.4
≥ 600	65.0	75.4	81.2	81.2	89.3	90.4	93.0	95.3	95.8	96.8	97.2	97.3	97.7	97.8	97.9	98.0
≥ 500	65.0	75.4	81.2	81.2	89.5	90.6	93.3	95.6	96.3	97.3	97.7	97.8	98.2	98.4	98.4	98.6
≥ 400	65.0	75.4	81.2	81.2	89.5	90.6	93.4	95.8	96.5	97.6	98.0	98.1	98.5	98.7	98.8	99.0
≥ 300	65.0	75.5	81.3	81.3	89.5	90.7	93.4	95.9	96.5	97.7	98.2	98.3	98.7	98.9	99.0	99.3
≥ 200	65.0	75.5	81.3	81.3	89.5	90.7	93.5	95.9	96.6	97.8	98.4	98.5	98.9	99.1	99.3	99.7
≥ 100	65.0	75.5	81.3	81.3	89.5	90.7	93.5	95.9	96.6	97.8	98.4	98.5	99.0	99.1	99.3	99.9
≥ 0	65.0	75.5	81.3	81.3	89.5	90.7	93.5	95.9	96.6	97.8	98.4	98.5	99.0	99.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 6685

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ .	≥ 0
NO CEILING	34.4	40.1	43.5	43.5	51.1	51.5	54.8	56.0	56.3	56.8	57.3	57.4	57.9	57.9	58.0	58.1
≥ 20000	38.5	44.8	49.3	49.3	57.9	58.3	63.0	64.3	64.6	65.1	65.6	65.7	66.2	66.2	66.3	66.4
≥ 18000	38.5	44.8	49.3	49.3	57.9	58.3	63.1	64.4	64.7	65.2	65.7	65.8	66.3	66.3	66.4	66.5
≥ 16000	38.6	44.9	49.4	49.4	58.0	58.4	63.2	64.6	64.8	65.3	65.8	65.9	66.4	66.4	66.5	66.7
≥ 14000	38.6	44.9	49.4	49.4	58.0	58.4	63.3	64.8	65.1	65.6	66.0	66.2	66.7	66.7	66.8	66.9
≥ 12000	40.0	46.4	50.9	50.9	59.9	60.2	65.2	66.8	67.0	67.5	68.0	68.1	68.6	68.6	68.8	68.9
≥ 10000	44.9	51.7	56.4	56.4	66.4	66.8	71.7	73.3	73.6	74.1	74.6	74.7	75.2	75.2	75.3	75.4
≥ 9000	45.1	51.9	56.5	56.5	66.5	66.9	71.9	73.5	73.7	74.2	74.7	74.8	75.3	75.3	75.4	75.6
≥ 8000	48.5	56.2	60.9	60.9	71.4	71.7	76.8	78.4	78.6	79.1	79.6	79.8	80.2	80.2	80.4	80.5
≥ 7000	49.6	57.4	62.1	62.1	72.6	73.0	78.0	79.6	79.9	80.4	80.9	81.0	81.5	81.5	81.6	81.7
≥ 6000	49.8	57.5	62.2	62.2	72.7	73.1	78.1	79.8	80.0	80.5	81.0	81.1	81.6	81.6	81.7	81.9
≥ 5000	50.7	58.5	63.3	63.3	73.8	74.2	79.3	80.9	81.1	81.6	82.1	82.2	82.7	82.7	82.8	83.0
≥ 4500	51.5	59.3	64.1	64.1	74.6	74.9	80.0	81.6	81.9	82.3	82.8	83.0	83.5	83.5	83.6	83.7
≥ 4000	53.7	61.6	66.8	66.8	77.4	77.8	83.1	84.7	84.9	85.4	85.9	86.0	86.5	86.5	86.7	86.8
≥ 3500	54.1	62.2	67.9	67.9	78.5	78.9	84.3	85.9	86.2	86.7	87.2	87.3	87.8	87.8	87.9	88.0
≥ 3000	57.9	66.2	72.5	72.5	83.5	84.0	89.8	91.4	91.6	92.1	92.6	92.7	93.2	93.2	93.3	93.6
≥ 2500	58.0	66.3	72.6	72.6	83.6	84.1	89.9	91.5	91.7	92.2	92.7	92.8	93.3	93.3	93.5	93.7
≥ 2000	58.8	67.7	74.3	74.3	85.9	86.4	92.2	94.2	94.4	94.9	95.4	95.6	96.0	96.0	96.2	96.4
≥ 1800	58.9	67.8	74.4	74.4	86.0	86.5	92.3	94.3	94.6	95.1	95.6	95.7	96.2	96.2	96.3	96.5
≥ 1500	59.0	67.9	74.7	74.7	86.3	87.2	93.1	95.1	95.3	95.8	96.3	96.4	96.9	96.9	97.0	97.3
≥ 1200	59.1	68.0	74.8	74.8	86.4	87.3	93.2	95.2	95.4	95.9	96.4	96.5	97.0	97.0	97.2	97.4
≥ 1000	59.4	68.3	75.1	75.1	86.8	87.7	93.7	95.7	95.9	96.4	96.9	97.0	97.5	97.5	97.7	97.9
≥ 900	59.4	68.3	75.1	75.1	86.8	87.7	93.7	95.7	95.9	96.4	96.9	97.0	97.5	97.5	97.7	97.9
≥ 800	59.5	68.4	75.3	75.3	87.0	87.9	94.0	95.9	96.2	96.7	97.2	97.3	97.8	97.8	97.9	98.1
≥ 700	59.5	68.4	75.3	75.3	87.0	87.9	94.0	95.9	96.2	96.7	97.3	97.4	97.9	97.9	98.0	98.3
≥ 600	59.5	68.4	75.3	75.3	87.0	87.9	94.0	95.9	96.2	96.7	97.3	97.4	97.9	97.9	98.0	98.3
≥ 500	59.5	68.4	75.3	75.3	87.2	88.0	94.1	96.3	96.7	97.2	97.8	97.9	98.4	98.4	98.5	98.8
≥ 400	59.5	68.4	75.3	75.3	87.2	88.0	94.1	96.3	96.7	97.3	98.0	98.1	98.6	98.6	98.8	99.0
≥ 300	59.6	68.5	75.4	75.4	87.3	88.1	94.2	96.4	96.8	97.4	98.1	98.3	98.8	98.8	99.0	99.4
≥ 200	59.6	68.5	75.4	75.4	87.3	88.1	94.2	96.4	96.8	97.4	98.3	98.4	98.9	98.9	99.1	99.6
≥ 100	59.6	68.5	75.4	75.4	87.3	88.1	94.2	96.4	96.8	97.4	98.3	98.4	98.9	98.9	99.1	100.0
≥ 0	59.6	68.5	75.4	75.4	87.3	88.1	94.2	96.4	96.8	97.4	98.3	98.4	98.9	98.9	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4/1/82  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

SEP

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING	26.3	29.8	34.9	34.9	42.3	42.8	45.5	48.6	49.2	50.7	51.8	52.2	53.4	53.5	55.0	55.9
≥ 20000	29.2	32.8	38.1	38.1	46.8	47.3	50.6	54.3	54.9	56.4	57.5	57.8	59.1	59.3	60.8	61.7
≥ 18000	29.5	33.3	39.6	38.6	47.5	48.0	51.2	54.9	55.5	57.0	58.1	58.5	59.7	60.0	61.4	62.3
≥ 16000	29.5	33.3	39.6	38.6	47.5	48.0	51.2	54.9	55.5	57.0	58.1	58.5	59.7	60.0	61.4	62.3
≥ 14000	29.8	33.5	38.8	38.8	47.7	48.2	51.7	55.4	56.0	57.5	58.7	59.1	60.4	60.7	62.2	63.0
≥ 12000	30.8	34.5	39.8	39.8	49.3	49.8	53.4	57.1	57.8	59.3	60.6	60.9	62.3	62.5	64.0	64.9
≥ 10000	34.9	38.8	44.1	44.1	54.0	54.5	58.3	62.1	62.9	64.4	65.6	66.0	67.4	67.6	69.1	70.0
≥ 9000	35.0	38.9	44.3	44.3	54.1	54.6	58.5	62.2	63.0	64.5	65.8	66.1	67.5	67.7	69.2	70.1
≥ 8000	38.2	42.4	47.8	47.8	58.2	58.7	62.5	66.4	67.2	68.9	70.1	70.5	71.8	72.1	73.5	74.4
≥ 7000	39.3	43.5	49.9	48.9	59.3	59.8	63.7	67.5	68.4	70.0	71.2	71.6	72.9	73.2	74.7	75.5
≥ 6000	39.3	43.5	48.9	48.9	59.3	59.8	63.7	67.5	68.4	70.0	71.2	71.6	72.9	73.2	74.7	75.5
≥ 5000	40.0	44.3	49.7	49.7	60.2	60.7	64.5	68.4	69.2	70.8	72.1	72.4	73.8	74.0	75.5	76.4
≥ 4500	40.7	44.9	50.3	50.3	60.9	61.4	65.3	69.1	70.0	71.6	72.8	73.2	74.5	74.8	76.3	77.1
≥ 4000	42.5	46.7	52.7	52.7	63.7	64.3	68.1	71.9	72.8	74.4	75.6	76.0	77.4	77.6	79.1	80.0
≥ 3500	43.7	47.3	53.4	53.4	64.9	65.5	69.3	73.2	74.0	75.6	76.9	77.3	78.6	78.9	80.3	81.2
≥ 3000	46.1	50.7	57.0	57.0	69.1	69.8	74.2	78.1	79.1	80.7	82.0	82.3	83.7	83.9	85.4	86.4
≥ 2500	46.4	51.3	57.8	57.8	70.3	71.1	75.5	79.5	80.5	82.2	83.4	83.8	85.2	85.4	86.9	87.9
≥ 2000	47.1	52.2	58.8	58.8	71.8	72.6	77.1	81.2	82.2	83.9	85.2	85.5	86.9	87.1	88.6	89.6
≥ 1800	47.6	52.7	59.3	59.3	72.3	73.1	77.6	81.7	82.7	84.4	85.7	86.0	87.4	87.6	89.1	90.1
≥ 1500	48.3	53.4	60.2	60.2	73.2	73.9	78.5	82.6	83.6	85.3	86.5	86.9	88.3	88.5	90.0	91.0
≥ 1200	48.5	53.8	60.7	60.7	73.8	74.5	79.1	83.2	84.2	85.9	87.1	87.5	88.9	89.1	90.6	91.6
≥ 1000	49.2	54.5	61.4	61.4	74.5	75.3	80.1	84.3	85.3	87.0	88.3	88.6	90.0	90.2	91.7	92.7
≥ 900	49.2	54.5	61.4	61.4	74.5	75.3	80.1	84.3	85.3	87.0	88.3	88.6	90.0	90.2	91.7	92.7
≥ 800	49.3	54.6	61.6	61.6	74.7	75.4	80.2	84.5	85.5	87.3	88.5	88.9	90.2	90.5	92.0	93.0
≥ 700	49.3	54.6	61.7	61.7	74.8	75.5	80.3	84.7	85.9	87.6	88.9	89.2	90.6	90.9	92.3	93.3
≥ 600	49.4	54.8	61.8	61.8	74.9	75.6	80.5	84.8	86.0	87.8	89.0	89.4	90.7	91.0	92.5	93.4
≥ 500	49.7	55.1	62.2	62.2	75.3	76.0	80.8	85.3	86.5	88.6	89.9	90.4	91.8	92.1	93.6	94.9
≥ 400	49.7	55.1	62.2	62.2	75.3	76.1	81.0	85.4	86.7	88.8	90.0	90.5	92.0	92.2	93.7	95.1
≥ 300	49.7	55.1	62.2	62.2	75.3	76.1	81.0	85.4	86.7	88.9	90.1	90.7	92.3	92.6	94.1	95.9
≥ 200	49.7	55.1	62.2	62.2	75.4	76.4	81.2	85.9	87.1	89.5	90.7	91.5	93.1	93.4	95.1	98.5
≥ 100	49.7	55.1	62.2	62.2	75.4	76.4	81.2	85.9	87.1	89.5	90.7	91.5	93.1	93.6	95.2	99.6
≥ 0	49.7	55.1	62.2	62.2	75.4	76.4	81.2	85.9	87.1	89.5	90.7	91.6	93.2	93.7	95.3	100.0

TOTAL NUMBER OF OBSERVATIONS

809

USAF ETAC

FORM  
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

USAN AB KD

STATION NAME

73-81

YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	15.2	17.4	21.9	20.9	25.8	26.5	28.9	33.4	34.8	37.0	38.1	39.1	41.0	41.2	42.2	45.0
≥ 20000	17.4	19.9	23.6	23.6	30.1	31.1	34.2	40.0	41.4	44.2	45.6	46.7	48.9	49.2	50.3	53.3
≥ 18000	17.6	20.2	24.1	24.1	30.6	31.7	34.8	40.7	42.1	45.1	46.5	47.6	49.9	50.2	51.3	54.4
≥ 16000	17.6	20.2	24.1	24.1	30.6	31.7	34.8	40.7	42.1	45.1	46.5	47.6	49.9	50.2	51.3	54.4
≥ 14000	17.8	20.5	24.5	24.5	31.2	32.3	35.8	41.7	43.1	46.1	47.5	48.6	50.9	51.2	52.4	55.5
≥ 12000	19.6	22.4	27.0	27.0	34.8	36.0	39.5	45.7	47.1	50.1	51.4	52.5	54.9	55.2	56.4	59.6
≥ 10000	23.0	26.6	31.3	31.3	39.4	40.6	44.2	50.4	52.0	55.3	56.8	57.9	60.2	60.5	61.7	65.2
≥ 9000	24.5	28.2	32.9	32.9	41.0	42.2	46.0	52.3	53.9	57.1	58.6	59.8	62.1	62.4	63.6	67.1
≥ 8000	27.7	31.9	37.3	37.3	46.2	47.6	51.4	58.1	60.0	63.2	64.7	65.8	68.2	68.4	69.8	73.4
≥ 7000	29.1	33.4	38.8	38.8	47.8	49.2	53.3	60.0	61.9	65.2	66.7	67.8	70.4	70.7	72.2	75.8
≥ 6000	29.1	33.4	38.9	38.9	48.0	49.3	53.4	60.1	62.0	65.3	66.8	68.0	70.6	70.8	72.3	75.9
≥ 5000	29.6	34.4	40.0	40.0	49.1	50.4	54.5	61.2	63.1	66.5	68.0	69.1	71.7	71.9	73.4	77.0
≥ 4500	30.2	35.0	40.6	40.6	49.7	51.1	55.2	61.9	63.7	67.1	68.6	69.7	72.3	72.7	74.2	77.8
≥ 4000	30.9	36.1	41.9	41.9	51.3	52.8	57.0	63.7	65.6	68.9	70.4	71.6	74.2	74.5	76.0	79.6
≥ 3500	31.7	37.0	42.9	42.9	52.3	53.8	58.1	64.8	66.7	70.1	71.6	72.7	75.3	75.7	77.3	80.9
≥ 3000	33.2	38.6	45.1	45.1	54.8	56.3	61.0	68.0	69.8	73.3	74.8	75.9	78.5	78.9	80.5	84.1
≥ 2500	34.2	39.8	46.6	46.6	56.4	58.0	62.9	69.8	71.7	75.3	76.8	77.9	80.5	80.9	82.5	86.1
≥ 2000	35.2	40.9	48.1	48.1	58.4	60.0	65.0	72.2	74.0	77.6	79.1	80.2	82.9	83.2	84.8	88.6
≥ 1800	35.2	40.9	48.1	48.1	58.4	60.0	65.0	72.2	74.0	77.6	79.1	80.2	82.9	83.2	84.8	88.6
≥ 1500	35.7	41.4	48.7	48.7	59.4	61.0	66.1	73.5	75.4	79.0	80.5	81.6	84.2	84.6	86.2	89.9
≥ 1200	35.8	41.5	48.8	48.8	59.6	61.4	66.6	74.0	75.9	79.5	81.0	82.1	84.7	85.1	86.7	90.4
≥ 1000	35.9	41.7	49.2	49.2	60.0	61.7	67.0	74.7	76.5	80.1	81.6	82.7	85.5	85.8	87.6	91.4
≥ 900	35.9	41.7	49.6	49.6	60.6	62.4	67.6	75.4	77.3	80.9	82.4	83.5	86.2	86.6	88.3	92.2
≥ 800	35.9	41.7	49.6	49.6	60.7	62.5	67.7	75.7	77.5	81.1	82.6	83.7	86.6	87.0	88.7	92.5
≥ 700	35.9	41.7	49.6	49.6	60.7	62.6	68.1	76.1	78.0	81.6	83.1	84.2	87.1	87.5	89.2	93.0
≥ 600	35.9	41.7	49.6	49.6	60.7	62.6	68.2	76.4	78.3	81.9	83.4	84.5	87.3	87.7	89.4	93.3
≥ 500	35.9	41.7	49.6	49.6	60.7	62.6	68.2	76.5	78.4	82.1	83.7	84.8	87.7	88.1	90.1	93.9
≥ 400	35.9	41.7	49.6	49.6	60.9	62.7	68.3	76.6	78.5	82.2	83.9	85.0	87.8	88.3	90.3	94.3
≥ 300	35.9	41.7	49.6	49.6	61.0	62.9	68.4	76.8	78.6	82.4	84.1	85.2	88.3	88.8	91.2	95.2
≥ 200	35.9	41.7	49.6	49.6	61.0	62.9	68.4	76.8	78.6	82.5	84.2	85.3	88.6	89.2	91.8	97.6
≥ 100	35.9	41.7	49.6	49.6	61.0	62.9	68.4	76.8	78.6	82.5	84.2	85.3	88.6	89.2	91.8	99.1
≥ 0	35.9	41.7	49.6	49.6	61.0	62.9	68.4	76.8	78.6	82.6	84.3	85.5	88.7	89.3	91.9	100.0

TOTAL NUMBER OF OBSERVATIONS 805

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4112  
STATION

OSAN AB MO

73-81

SEP

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS - 157

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥⅛	≥0.16	≥0
NO CEILING ≥ 20000	28.7	36.8	40.5	40.5	43.6	44.3	45.2	46.8	46.9	47.0	47.2	47.3	47.6	47.8	47.8	48.0
≥ 18000	34.9	44.2	48.9	48.9	52.8	53.7	54.7	56.8	57.2	57.4	57.5	57.7	58.0	58.2	58.2	58.4
IV 16000	35.3	44.8	49.6	49.6	53.7	54.7	55.7	57.8	58.2	58.4	58.5	58.7	59.0	59.2	59.2	59.4
IV 14000	35.6	45.2	50.0	50.0	54.1	55.1	56.1	58.2	58.5	58.8	58.9	59.0	59.4	59.5	59.5	59.8
IV 12000	37.3	47.4	52.5	52.5	56.6	57.5	58.5	60.6	61.0	61.3	61.4	61.5	61.9	62.0	62.0	62.3
IV 10000	39.7	49.9	55.2	55.2	59.7	60.6	61.6	63.9	64.2	64.5	64.6	64.7	65.1	65.2	65.2	65.5
IV 9000	43.1	53.6	59.3	59.3	63.9	64.9	65.8	68.1	68.4	68.8	69.1	69.2	69.6	69.7	69.7	69.9
IV 8000	44.2	55.1	60.9	60.9	65.7	66.8	67.9	70.2	70.5	70.9	71.2	71.3	71.7	71.8	71.8	72.0
IV 7000	47.8	59.3	65.2	65.2	70.0	71.2	72.3	74.6	75.0	75.4	75.6	75.7	76.1	76.2	76.2	76.5
IV 6000	48.8	60.3	66.5	66.5	71.4	72.5	73.8	76.1	76.5	76.9	77.1	77.2	77.6	77.7	77.7	78.0
IV 5000	49.3	61.0	67.3	67.3	72.4	73.5	74.8	77.4	77.7	78.1	78.3	78.5	78.8	79.0	79.0	79.2
IV 4500	49.3	61.0	67.3	67.3	72.4	73.5	74.8	77.4	77.7	78.1	78.3	78.5	78.8	79.0	79.0	79.2
IV 4000	50.9	62.6	69.4	69.4	75.2	76.4	77.6	80.2	80.6	80.9	81.2	81.3	81.7	81.8	81.8	82.1
IV 3500	51.9	64.0	71.0	71.0	77.1	78.2	79.5	82.1	82.4	82.8	83.0	83.2	83.5	83.7	83.7	83.9
IV 3000	55.8	68.4	76.5	76.5	82.9	84.0	85.4	88.0	88.4	88.7	89.0	89.1	89.5	89.6	89.6	89.9
IV 2500	56.8	69.4	77.7	77.7	84.2	85.3	86.6	89.2	89.6	90.0	90.2	90.3	90.7	90.8	90.8	91.1
IV 2000	57.9	71.0	79.6	79.6	86.6	87.7	89.1	91.8	92.2	92.6	92.9	93.1	93.4	93.6	93.6	93.8
IV 1800	57.9	71.0	79.6	79.6	86.6	87.7	89.1	91.8	92.2	92.6	92.9	93.1	93.4	93.6	93.6	93.8
IV 1500	58.3	71.4	80.1	80.1	87.4	88.5	90.1	92.8	93.2	93.6	93.9	94.1	94.4	94.6	94.6	94.8
IV 1200	58.5	71.7	80.3	80.3	87.9	89.0	90.6	93.3	93.8	94.2	94.7	94.8	95.2	95.3	95.3	95.5
IV 1000	58.7	71.8	80.6	80.6	88.2	89.5	91.5	94.2	94.7	95.2	95.7	95.8	96.2	96.3	96.3	96.5
IV 900	58.8	71.9	80.7	80.7	88.4	89.6	91.6	94.4	94.9	95.4	95.9	96.0	96.4	96.5	96.5	96.8
IV 800	58.9	72.2	80.9	80.9	88.9	90.1	92.1	94.9	95.5	96.0	96.5	96.7	97.0	97.2	97.2	97.4
IV 700	58.9	72.2	80.9	80.9	89.4	90.6	92.7	95.5	96.2	96.7	97.2	97.3	97.6	97.8	97.8	98.0
IV 600	58.9	72.2	80.9	80.9	89.4	90.6	92.9	95.8	96.4	96.9	97.4	97.5	97.9	98.0	98.0	98.3
IV 500	58.9	72.2	80.9	80.9	89.4	90.7	93.1	96.0	96.7	97.3	98.0	98.1	98.5	98.6	98.6	98.9
IV 400	58.9	72.2	80.9	80.9	89.4	90.7	93.1	96.0	96.7	97.3	98.0	98.1	98.5	98.6	98.6	98.9
IV 300	58.9	72.2	80.9	80.9	89.4	90.7	93.1	96.0	96.8	97.4	98.1	98.3	98.9	99.0	99.0	99.3
IV 200	58.9	72.2	80.9	80.9	89.4	90.7	93.1	96.0	96.8	97.4	98.3	98.4	99.0	99.1	99.1	99.6
IV 100	58.9	72.2	80.9	80.9	89.4	90.7	93.1	96.0	96.8	97.4	98.3	98.4	99.0	99.1	99.1	99.9
IV 0	58.9	72.2	80.9	80.9	89.4	90.7	93.1	96.0	96.8	97.4	98.3	98.4	99.0	99.1	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 808

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB MO  
STATION NAME

73-81  
YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING	43.1	48.9	49.6	49.6	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 20000	54.3	61.7	61.9	61.9	62.3	62.3	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 18000	55.3	62.8	63.8	63.8	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 16000	56.4	63.5	64.4	64.4	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 14000	58.0	65.3	66.3	66.3	67.0	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 12000	61.9	69.5	70.5	70.5	71.2	71.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 10000	65.4	73.3	74.3	74.3	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 9000	66.2	74.1	75.1	75.1	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 8000	70.5	79.9	80.9	80.9	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 7000	71.9	81.4	82.3	82.3	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 6000	72.1	81.7	82.7	82.7	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 5000	72.6	82.2	83.2	83.2	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 4500	73.7	82.6	83.6	83.6	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 4000	75.8	85.6	86.8	86.8	88.4	88.4	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 3500	77.0	86.8	88.3	88.3	90.0	90.0	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 3000	82.5	92.3	94.1	94.1	95.9	95.9	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 2500	84.1	94.1	95.8	95.8	97.9	97.9	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 2000	84.6	94.6	96.3	96.3	98.4	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1800	84.6	94.6	96.3	96.3	98.4	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1500	85.2	95.2	97.2	97.2	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200	85.2	95.2	97.3	97.3	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000	85.2	95.2	97.3	97.3	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	85.2	95.2	97.3	97.3	99.4	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	85.2	95.2	97.3	97.3	99.5	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	85.2	95.2	97.3	97.3	99.5	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	85.2	95.2	97.3	97.3	99.5	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	85.2	95.2	97.3	97.3	99.5	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	85.2	95.2	97.3	97.3	99.5	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	85.2	95.2	97.3	97.3	99.5	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	85.2	95.2	97.3	97.3	99.5	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	85.2	95.2	97.3	97.3	99.5	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	85.2	95.2	97.3	97.3	99.5	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

172  
STATION

USAN AB MD

STATION NAME

73-81

YEARS

SEP  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS, LT

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0
NO CEILING	46.2	51.5	51.7	51.7	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
≥ 20000	58.6	64.3	64.6	64.6	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 18000	59.6	65.6	65.8	65.8	66.0	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 16000	60.7	65.9	66.3	66.3	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 14000	61.5	67.5	67.9	67.9	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 12000	64.7	71.5	71.9	71.9	72.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 10000	70.4	77.5	78.0	78.0	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 9000	71.1	78.4	78.9	78.9	79.1	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 8000	76.7	83.5	84.0	84.0	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 7000	78.4	85.8	86.3	86.3	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.8	86.8	86.8
≥ 6000	78.9	86.3	86.8	86.8	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.3	87.3	87.3
≥ 5000	79.1	86.8	87.3	87.3	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.8	87.8	87.8
≥ 4500	79.1	86.9	87.5	87.5	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.0	88.0	88.0
≥ 4000	80.9	88.6	89.3	89.3	90.0	90.2	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.6
≥ 3500	82.3	90.4	91.0	91.0	92.0	92.2	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.6	92.6	92.6
≥ 3000	85.9	94.3	95.2	95.2	96.7	96.9	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.3	97.3	97.3
≥ 2500	86.7	95.2	96.0	96.0	97.5	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1
≥ 2000	86.9	95.6	96.5	96.5	99.0	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6	98.6
≥ 1800	87.0	95.7	96.7	96.7	98.1	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.8	98.8	98.8
≥ 1500	87.0	95.7	96.7	96.7	98.4	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1
≥ 1200	87.2	95.8	96.8	96.8	98.5	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.3	99.3	99.3
≥ 1000	87.3	96.0	97.0	97.0	98.8	99.0	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6
≥ 900	87.4	96.2	97.2	97.2	98.9	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.8	99.8	99.8
≥ 800	87.5	96.3	97.3	97.3	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 700	87.5	96.3	97.3	97.3	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 600	87.5	96.3	97.3	97.3	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 500	87.5	96.3	97.3	97.3	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 400	87.5	96.3	97.3	97.3	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 300	87.5	96.3	97.3	97.3	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 200	87.5	96.3	97.3	97.3	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 100	87.5	96.3	97.3	97.3	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0
≥ 0	87.5	96.3	97.3	97.3	99.0	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4112  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥	≥16	≥0
NO CEILING	49.6	56.9	59.3	58.3	59.3	50.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 20000	51.7	69.8	71.4	70.4	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 18000	51.7	69.6	71.6	71.6	72.8	72.8	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 16000	52.7	69.9	71.9	71.9	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 14000	52.6	71.9	72.6	72.8	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 12000	65.2	73.6	75.8	75.8	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 10000	68.9	77.8	81.6	80.6	82.1	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
≥ 9000	69.5	78.4	81.2	81.2	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
≥ 8000	73.0	82.1	84.9	84.9	86.4	86.5	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 7000	75.3	84.8	88.0	88.0	89.6	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 6000	76.2	85.7	88.9	88.9	90.5	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 5000	76.7	86.5	89.8	89.8	91.4	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 4500	76.7	86.5	89.8	89.8	91.7	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 4000	77.9	88.0	91.2	91.2	93.3	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 3500	78.4	88.9	92.2	92.2	94.3	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 3000	79.9	90.7	94.2	94.2	96.7	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2500	80.5	91.4	95.1	95.1	97.5	98.1	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 2000	80.7	91.6	95.3	95.3	97.8	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1800	80.7	91.6	95.3	95.3	97.8	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1500	81.1	91.9	95.7	95.7	98.5	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200	81.1	91.9	95.7	95.7	98.6	99.3	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000	81.1	91.9	95.3	95.8	98.8	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	81.1	91.9	95.8	95.8	98.8	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	81.1	91.9	95.8	95.8	98.8	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	81.0	91.9	95.8	95.8	98.8	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	81.1	91.9	95.8	95.8	98.8	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	81.0	91.9	95.8	95.8	98.8	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	81.1	91.9	95.8	95.8	98.8	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	81.0	91.9	95.8	95.8	98.8	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	81.1	91.9	95.8	95.8	98.8	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	81.1	91.9	95.8	95.8	98.8	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	81.1	91.9	95.8	95.8	98.8	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
1112

USAN AE KO

STATION NAME

73-81

YEARS

SEP  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS U.S.T.

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.5	≥.4	≥.3	≥.25	≥.2	≥.1
NO CEILING	47.9	53.3	56.3	56.3	61.6	61.9	62.6	62.7	62.7	63.1	63.5	63.5	63.5	63.5	63.5	63.5
≥ 20000	54.4	60.5	64.2	64.2	70.0	70.2	71.1	71.4	71.4	71.7	72.1	72.1	72.1	72.1	72.1	72.1
IV 18000	54.5	60.7	64.7	64.7	71.0	71.2	72.1	72.3	72.3	72.7	73.1	73.1	73.1	73.1	73.1	73.1
IV 16000	54.7	60.9	64.9	64.9	71.2	71.5	72.3	72.6	72.6	73.0	73.3	73.3	73.3	73.3	73.3	73.3
IV 14000	55.9	62.0	66.0	66.0	72.3	72.6	73.5	73.7	73.7	74.1	74.4	74.4	74.4	74.4	74.4	74.4
IV 12000	57.3	64.2	68.3	68.3	74.7	74.9	75.8	76.3	76.3	76.7	77.0	77.0	77.0	77.0	77.0	77.0
IV 10000	60.9	67.2	71.7	71.7	78.8	79.0	80.0	80.5	80.5	80.9	81.2	81.2	81.2	81.2	81.2	81.2
IV 9000	61.7	69.0	72.6	72.6	79.6	79.9	80.9	81.4	81.4	81.7	82.1	82.1	82.1	82.1	82.1	82.1
IV 8000	65.4	72.1	76.5	76.5	84.3	84.6	85.6	86.0	86.0	86.4	86.8	86.8	86.8	86.8	86.8	86.8
IV 7000	67.7	73.8	78.6	78.6	86.2	86.4	87.4	87.9	87.9	88.3	88.6	88.6	88.6	88.6	88.6	88.6
IV 6000	67.7	74.4	79.3	79.3	85.8	87.0	88.0	88.5	88.5	88.9	89.3	89.3	89.3	89.3	89.3	89.3
IV 5000	68.5	75.3	80.4	80.4	87.9	88.1	89.1	89.6	89.6	90.0	90.4	90.4	90.4	90.4	90.4	90.4
IV 4500	68.6	75.4	80.5	80.5	88.3	88.5	89.5	90.0	90.0	90.4	90.7	90.7	90.7	90.7	90.7	90.7
IV 4000	71.1	78.0	83.1	83.1	90.9	91.1	92.3	92.8	92.8	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 3500	71.6	79.0	84.2	84.2	92.0	92.2	93.5	94.0	94.0	94.3	94.7	94.7	94.7	94.7	94.7	94.7
IV 3000	72.6	80.6	86.0	86.0	94.0	94.2	95.6	96.0	96.0	96.4	96.8	96.8	96.8	96.8	96.8	96.8
IV 2500	73.6	81.5	87.0	87.0	94.9	95.2	96.5	97.0	97.0	97.4	97.8	97.8	97.8	97.8	97.8	97.8
IV 2000	74.0	82.1	87.7	87.7	95.9	96.2	97.5	98.0	98.0	98.4	98.8	98.8	98.8	98.8	98.8	98.8
IV 1800	74.0	82.1	87.7	87.7	95.9	96.3	97.7	98.1	98.1	98.5	98.9	98.9	98.9	98.9	98.9	98.9
IV 1500	74.1	82.2	88.1	88.1	96.7	97.0	98.4	98.9	98.9	99.3	99.6	99.6	99.6	99.6	99.6	99.6
IV 1200	74.1	82.2	88.1	88.1	96.9	97.3	98.6	99.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9
IV 1000	74.1	82.2	88.1	88.1	96.9	97.3	98.6	99.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9
IV 900	74.1	82.2	88.1	88.1	96.9	97.3	98.6	99.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9
IV 800	74.1	82.2	88.1	88.1	96.9	97.3	98.6	99.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9
IV 700	74.1	82.2	88.1	88.1	96.9	97.3	98.6	99.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9
IV 600	74.1	82.2	88.1	88.1	96.9	97.3	98.6	99.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9
IV 500	74.1	82.2	88.1	88.1	96.9	97.3	98.6	99.1	99.1	99.5	99.9	99.9	99.9	99.9	99.9	99.9
IV 400	74.1	82.2	88.1	88.1	97.0	97.4	98.8	99.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	74.1	82.2	88.1	88.1	97.0	97.4	98.8	99.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	74.1	82.2	88.1	88.1	97.0	97.4	98.8	99.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	74.1	82.2	88.1	88.1	97.0	97.4	98.8	99.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	74.1	82.2	88.1	88.1	97.0	97.4	98.8	99.3	99.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 81

U.S. AIR FORCE  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

1 2  
STATION

OSAN AB W0

STATION NAME

73-81

YEARS

SEP  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-24

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥0
NO CEILING	36.4	41.9	44.5	44.5	49.2	48.5	49.8	51.1	51.4	52.7	52.4	52.6	53.1	53.2	53.5	54.1
≥ 20000	43.5	47.6	52.0	52.6	57.1	57.5	59.1	60.8	61.1	61.8	62.2	62.4	62.9	63.7	63.4	63.9
≥ 18000	44.1	51.3	53.5	53.5	59.0	56.5	60.1	61.8	62.1	62.8	63.2	63.4	64.7	64.1	64.4	65.0
≥ 16000	44.3	51.5	53.7	53.7	58.3	56.7	60.4	62.0	62.4	63.1	63.5	63.7	64.3	64.3	64.7	65.2
≥ 14000	45.2	51.5	54.0	54.8	59.4	59.8	61.6	63.3	63.6	64.3	64.7	64.9	65.5	65.6	65.9	66.5
≥ 12000	47.5	54.3	57.4	57.4	62.4	62.8	64.6	66.4	66.7	67.4	67.8	68.1	68.6	68.7	69.1	69.6
≥ 10000	51.5	58.3	67.1	62.0	67.3	67.7	69.5	71.3	71.7	72.4	72.9	73.1	73.7	73.8	74.1	74.7
≥ 9000	52.2	59.1	62.8	62.8	68.1	68.6	71.4	72.2	72.6	73.3	73.8	74.0	74.6	74.7	75.0	75.6
≥ 8000	55.7	63.4	67.2	67.2	72.8	73.3	75.2	77.1	77.5	78.2	78.7	78.9	79.5	79.6	79.9	80.5
≥ 7000	57.4	65.1	69.0	69.0	74.6	75.1	77.0	78.9	79.3	80.1	80.5	80.9	81.4	81.5	81.8	82.4
≥ 6000	57.7	65.4	69.3	69.3	74.9	75.4	77.3	79.2	79.6	80.4	80.9	81.1	81.7	81.8	82.2	82.8
≥ 5000	58.3	66.2	70.1	70.1	75.8	76.3	78.2	80.1	80.5	81.3	81.8	82.0	82.6	82.7	83.1	83.7
≥ 4500	58.7	66.5	70.5	70.5	76.2	76.7	78.6	80.5	81.0	81.7	82.2	82.4	83.1	83.1	83.5	84.1
≥ 4000	59.5	68.4	72.7	72.7	78.8	79.4	81.4	83.3	83.7	84.5	85.0	85.2	85.8	85.9	86.3	86.9
≥ 3500	61.3	69.5	73.9	73.9	81.2	80.7	82.8	84.7	85.1	85.9	86.4	86.6	87.2	87.3	87.7	88.3
≥ 3000	64.3	72.8	77.6	77.6	84.2	84.8	87.1	89.1	89.5	90.3	90.8	91.0	91.6	91.7	92.1	92.7
≥ 2500	65.7	73.6	78.6	78.6	85.3	86.0	88.2	90.3	90.7	91.5	92.0	92.2	92.8	92.9	93.3	93.9
≥ 2000	65.7	74.5	79.6	79.6	86.6	87.3	89.6	91.7	92.1	93.0	93.4	93.7	94.3	94.4	94.8	95.4
≥ 1800	65.8	74.6	79.7	79.7	86.7	87.4	89.7	91.8	92.2	93.1	93.6	93.8	94.4	94.5	94.9	95.5
≥ 1500	66.1	74.9	80.2	80.2	87.4	88.1	90.5	92.6	93.1	93.9	94.4	94.6	95.2	95.3	95.7	96.4
≥ 1200	66.2	75.0	80.3	80.3	87.7	88.4	90.8	93.0	93.4	94.2	94.7	94.9	95.6	95.7	96.1	96.7
≥ 1000	66.4	75.2	80.6	80.6	87.9	88.7	91.2	93.4	93.9	94.7	95.2	95.4	96.1	96.2	96.6	97.2
≥ 900	66.4	75.3	80.7	80.7	88.1	88.8	91.3	93.6	94.0	94.9	95.4	95.6	96.2	96.3	96.7	97.4
≥ 800	66.5	75.3	80.8	80.8	88.2	88.9	91.5	93.8	94.2	95.1	95.6	95.8	96.4	96.5	97.0	97.6
≥ 700	66.5	75.3	80.8	80.8	88.3	89.0	91.6	93.9	94.4	95.3	95.8	96.0	96.6	96.7	97.2	97.8
≥ 600	66.5	75.4	80.8	80.8	88.3	89.0	91.7	94.0	94.5	95.3	95.9	96.1	96.7	96.8	97.2	97.9
≥ 500	66.5	75.4	80.8	80.8	88.4	89.1	91.7	94.2	94.7	95.6	96.2	96.4	97.0	97.1	97.6	98.3
≥ 400	66.5	75.4	80.8	80.8	88.4	89.2	91.8	94.2	94.7	95.6	96.2	96.5	97.1	97.2	97.7	98.4
≥ 300	66.5	75.4	80.9	80.9	88.4	89.2	91.8	94.2	94.8	95.7	96.3	96.6	97.3	97.4	97.9	98.7
≥ 200	66.5	75.4	80.9	80.9	88.4	89.2	91.9	94.3	94.8	95.8	96.4	96.7	97.5	97.6	98.1	99.4
≥ 100	66.5	75.4	80.9	80.9	88.4	89.2	91.9	94.3	94.8	95.8	96.4	96.7	97.5	97.6	98.2	99.8
≥ 0	66.5	75.4	80.9	80.9	88.4	89.2	91.9	94.3	94.8	95.8	96.4	96.7	97.5	97.6	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 6472

USAF ETAC

FORM  
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 12 USAN AB KO STATION NAME

73-81

YEARS

OCT  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (LST)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO CEILING	32.7	42.2	46.4	46.9	55.5	55.5	59.2	62.4	62.8	63.6	64.0	64.0	64.5	64.5	64.7	64.8
≥ 20000	41.4	46.1	51.1	51.1	67.5	60.6	64.5	67.7	68.1	68.9	69.3	69.4	69.9	69.9	70.1	70.2
≥ 18000	41.5	46.3	51.7	51.3	67.8	60.9	64.7	67.9	68.3	69.1	69.5	69.6	69.6	70.1	70.3	70.5
≥ 16000	41.7	46.4	51.4	51.4	67.9	61.0	64.8	68.1	68.4	69.3	69.6	69.7	70.2	70.2	70.5	70.6
≥ 14000	42.1	46.8	51.9	51.9	61.7	61.8	65.7	68.9	69.3	70.1	70.5	70.6	71.1	71.1	71.3	71.4
≥ 12000	43.2	46.1	53.7	53.7	63.5	63.6	67.5	70.7	71.3	72.1	72.5	72.6	73.1	73.1	73.3	73.4
≥ 10000	44.4	46.4	55.3	55.3	66.3	66.4	70.2	73.7	74.4	75.2	75.6	75.7	76.2	76.2	76.4	76.6
≥ 9000	45.1	50.1	55.0	55.0	67.1	67.2	71.1	74.5	75.2	76.1	76.4	76.6	77.0	77.0	77.3	77.4
≥ 8000	47.7	52.9	59.0	59.0	70.7	71.1	74.9	78.5	79.2	80.0	80.4	80.5	81.0	81.0	81.2	81.3
≥ 7000	49.2	54.5	61.0	61.0	73.1	73.4	77.3	80.9	81.6	82.8	83.1	83.3	83.7	83.7	84.0	84.1
≥ 6000	49.3	54.9	61.5	61.5	73.6	73.9	77.8	81.3	82.1	83.3	83.6	83.7	84.2	84.2	84.4	84.6
≥ 5000	50.2	55.9	62.4	62.4	74.5	74.9	78.8	82.4	83.1	84.3	84.7	84.8	85.3	85.3	85.5	85.6
≥ 4500	51.0	56.6	63.3	63.3	75.4	75.7	79.7	83.3	84.0	85.2	85.5	85.6	86.1	86.1	86.4	86.5
≥ 4000	53.6	59.4	66.5	66.5	79.1	79.4	83.5	87.1	87.8	89.0	89.4	89.5	90.0	90.0	90.2	90.3
≥ 3500	55.5	61.7	68.9	68.9	81.5	81.8	85.9	89.5	90.2	91.4	91.7	91.9	92.3	92.3	92.6	92.7
≥ 3000	57.8	64.2	71.7	71.7	84.6	84.9	89.1	92.8	93.5	94.7	95.1	95.2	95.8	95.8	96.1	96.2
≥ 2500	57.9	64.5	71.9	71.9	84.8	85.2	89.4	93.1	93.8	95.0	95.3	95.5	96.1	96.1	96.3	96.4
≥ 2000	57.9	64.6	72.0	72.0	84.9	85.3	89.5	93.2	93.9	95.1	95.5	95.6	96.2	96.2	96.4	96.5
≥ 1800	57.9	64.6	72.0	72.0	84.9	85.3	89.5	93.2	93.9	95.1	95.5	95.6	96.2	96.2	96.4	96.5
≥ 1500	58.0	64.8	72.2	72.2	85.2	85.5	89.7	93.4	94.1	95.3	95.7	95.8	96.4	96.4	96.7	96.8
≥ 1200	58.3	65.2	72.6	72.6	85.5	85.9	90.1	93.8	94.5	95.7	96.1	96.2	96.8	96.8	97.0	97.1
≥ 1000	58.3	65.2	72.6	72.6	85.9	86.2	90.4	94.1	94.9	96.1	96.4	96.5	97.1	97.1	97.4	97.5
≥ 900	58.3	65.2	72.6	72.6	85.9	86.2	90.4	94.1	94.9	96.1	96.4	96.5	97.1	97.1	97.4	97.5
≥ 800	58.3	65.2	72.8	72.8	86.1	86.5	90.7	94.4	95.1	96.3	96.7	96.8	97.4	97.4	97.6	97.7
≥ 700	58.3	65.2	72.8	72.8	86.2	86.6	90.8	94.5	95.2	96.4	96.8	96.9	97.5	97.5	97.7	97.8
≥ 600	58.3	65.2	72.8	72.8	86.2	86.6	90.8	94.5	95.2	96.4	96.8	96.9	97.5	97.5	97.7	97.8
≥ 500	58.3	65.2	72.8	72.8	86.2	86.6	90.8	94.5	95.2	96.4	96.8	96.9	97.5	97.5	97.7	97.8
≥ 400	58.3	65.2	72.8	72.8	86.2	86.6	90.8	94.5	95.2	96.4	96.8	96.9	97.5	97.5	97.7	97.8
≥ 300	58.3	65.2	72.8	72.8	86.2	86.6	90.8	94.5	95.2	96.4	96.8	96.9	97.5	97.5	97.7	97.8
≥ 200	58.3	65.2	72.8	72.8	86.2	86.6	90.8	94.5	95.2	96.4	96.8	96.9	97.5	97.5	97.7	97.8
≥ 100	58.3	65.2	72.8	72.8	86.2	86.6	90.8	94.5	95.2	96.4	96.8	96.9	97.5	97.5	97.7	97.8
≥ 0	58.3	65.2	72.8	72.8	86.2	86.6	90.8	94.5	95.2	96.4	96.8	96.9	97.5	97.5	97.7	97.8

TOTAL NUMBER OF OBSERVATIONS 836

JUNIPAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

41-2  
STATION

USAN AB KO

STATION NAME

73-81

YEARS

300  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

330-350  
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ 0
NO CEILING	36.5	39.7	42.0	42.0	50.1	51.7	53.8	56.9	57.6	59.2	60.7	60.7	61.8	61.9	63.0	64.6
≥ 20000	29.3	42.6	46.3	46.3	55.2	56.9	58.9	62.2	62.9	64.6	66.3	66.3	67.4	67.5	68.9	70.5
≥ 18000	39.4	42.8	46.7	46.7	55.6	57.2	59.3	62.5	63.2	64.9	66.7	66.7	67.8	67.9	69.2	70.9
≥ 16000	39.5	42.9	46.8	46.8	55.7	57.4	59.4	62.6	63.4	65.0	66.8	66.8	67.9	68.0	69.3	71.0
≥ 14000	39.2	43.1	47.2	47.2	56.2	58.1	60.1	63.4	64.1	65.7	67.5	67.5	68.6	68.7	70.1	71.7
≥ 12000	43.1	43.5	47.8	47.8	56.8	58.7	60.7	64.0	64.7	66.3	68.1	68.1	69.2	69.3	70.7	72.3
≥ 10000	40.2	44.4	48.9	48.9	58.7	60.8	62.9	66.3	67.2	68.9	70.7	70.7	71.7	72.0	73.3	75.0
≥ 9000	41.1	44.8	49.3	49.3	59.3	61.4	63.5	66.9	67.9	69.6	71.5	71.5	72.6	72.8	74.1	75.8
≥ 8000	43.7	47.7	52.2	52.2	62.9	65.0	67.1	70.5	71.5	73.2	75.1	75.1	76.2	76.4	77.7	79.4
≥ 7000	44.9	49.3	54.0	54.0	64.8	66.9	69.1	72.6	73.5	75.4	77.4	77.4	78.4	78.7	80.0	81.7
≥ 6000	45.3	49.7	54.4	54.4	65.1	67.3	69.5	72.9	73.9	75.3	77.7	77.7	78.8	79.0	80.4	82.0
≥ 5000	46.2	50.7	55.3	55.3	66.1	68.3	70.4	73.9	74.9	76.8	78.7	78.7	79.9	80.0	81.3	83.2
IV 4500	46.5	51.9	55.6	55.6	66.3	68.5	70.7	74.1	75.1	77.0	78.9	78.9	80.0	80.2	81.6	83.2
IV 4000	48.3	52.8	57.5	57.6	68.4	70.7	73.1	76.5	77.5	79.4	81.3	81.3	82.4	82.6	84.0	85.6
IV 3500	49.9	54.9	59.9	59.9	70.7	72.9	75.3	78.8	79.8	81.7	83.6	83.6	84.7	84.9	86.2	87.9
IV 3000	52.6	58.2	63.8	63.8	74.7	77.0	79.5	83.1	84.1	86.1	88.0	88.0	89.1	89.3	90.7	92.3
IV 2500	53.1	58.8	64.4	64.4	75.3	77.6	80.1	83.7	84.7	86.7	88.6	88.6	89.7	89.9	91.3	92.9
IV 2000	53.3	59.0	64.7	64.7	75.8	78.1	80.6	84.2	85.1	87.2	89.1	89.1	90.2	90.4	91.7	93.4
IV 1800	53.3	59.0	64.7	64.7	75.8	78.1	80.6	84.2	85.1	87.2	89.1	89.1	90.2	90.4	91.7	93.4
IV 1500	53.3	59.0	64.7	64.7	75.8	78.1	80.6	84.2	85.1	87.2	89.1	89.1	90.2	90.4	91.7	93.4
IV 1200	53.3	59.2	64.9	64.9	76.4	78.7	81.2	84.9	85.9	87.9	89.8	89.8	90.9	91.1	92.5	94.3
IV 1000	53.3	59.2	64.9	64.9	76.4	78.7	81.2	84.9	85.9	87.9	89.8	89.8	90.9	91.1	92.5	94.3
IV 900	53.3	59.2	64.9	64.9	76.4	78.7	81.2	84.9	85.9	87.9	89.8	89.8	90.9	91.1	92.5	94.3
IV 800	53.3	59.2	64.9	64.9	76.4	78.7	81.2	84.9	85.9	87.9	89.8	89.8	90.9	91.1	92.5	94.3
IV 700	53.4	59.3	65.0	65.0	77.0	79.3	82.0	85.7	86.7	88.7	90.7	90.7	91.7	91.7	93.7	95.4
IV 600	53.4	59.3	65.0	65.0	77.0	79.3	82.0	85.7	86.7	88.7	90.7	90.7	91.7	91.7	93.7	95.4
IV 500	53.4	59.3	65.0	65.0	77.0	79.3	82.0	85.7	86.7	88.7	90.7	90.7	91.7	91.7	93.7	95.4
IV 400	53.4	59.3	65.0	65.0	77.0	79.3	82.0	85.7	86.7	88.7	90.7	90.7	91.7	91.7	93.7	95.4
IV 300	53.4	59.3	65.0	65.0	77.0	79.3	82.0	85.7	86.7	88.7	90.7	90.7	91.7	91.7	93.7	95.4
IV 200	53.4	59.3	65.0	65.0	77.0	79.3	82.0	85.7	86.7	88.7	90.7	90.7	91.7	91.7	93.7	95.4
IV 100	53.4	59.3	65.0	65.0	77.0	79.3	82.0	85.7	86.7	88.7	90.7	90.7	91.7	91.7	93.7	95.4
IV 0	53.4	59.3	65.0	65.0	77.0	79.3	82.0	85.7	86.7	88.7	90.7	90.7	91.7	91.7	93.7	95.4

TOTAL NUMBER OF OBSERVATIONS 835

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4112  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3630-0800  
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.01
NO CEILING	23.1	26.4	31.4	31.4	39.1	40.5	42.4	45.3	46.5	48.8	50.4	51.4	53.2	53.4	54.2	57.7
≥ 20000	25.3	29.5	35.1	35.1	43.8	45.2	48.0	51.1	52.6	55.3	57.0	58.2	60.1	60.2	61.3	65.1
≥ 18000	25.3	29.1	35.5	35.5	44.4	45.8	48.6	51.8	53.4	56.0	57.7	58.9	60.8	60.9	62.0	65.8
≥ 16000	25.5	29.5	36.1	36.1	45.0	46.4	49.2	52.4	54.0	56.6	58.3	59.5	61.4	61.5	62.6	66.4
≥ 14000	25.7	29.6	36.5	36.5	45.3	46.8	49.5	52.8	54.3	57.1	58.8	60.0	61.9	62.0	63.2	67.1
≥ 12000	27.0	30.9	38.1	38.0	47.0	48.4	51.2	54.7	56.2	59.0	60.7	61.9	63.8	63.9	65.1	69.1
≥ 10000	28.1	32.1	39.3	39.3	48.6	50.1	53.1	56.7	58.4	61.5	63.3	64.5	66.5	66.7	68.0	71.9
≥ 9000	28.4	32.5	40.2	40.2	49.8	51.3	54.3	57.9	59.6	62.8	64.6	65.8	67.9	68.0	69.3	73.3
≥ 8000	29.7	34.3	42.6	42.6	52.3	53.8	56.8	60.7	62.4	65.6	67.4	68.6	70.6	70.7	72.1	76.1
≥ 7000	30.7	35.3	43.5	43.5	53.2	54.8	58.2	62.1	63.8	67.1	68.9	70.1	72.2	72.3	73.6	77.7
≥ 6000	30.7	35.4	43.6	43.6	53.5	55.0	58.4	62.4	64.0	67.4	69.2	70.4	72.4	72.5	73.9	77.9
≥ 5000	31.8	36.6	44.8	44.8	54.9	56.5	59.8	64.0	65.7	69.1	70.9	72.1	74.1	74.2	75.5	79.6
≥ 4500	31.8	36.6	44.8	44.8	54.9	56.5	59.8	64.0	65.7	69.1	70.9	72.1	74.1	74.2	75.5	79.6
≥ 4000	33.8	38.6	47.1	47.1	57.3	58.9	62.4	66.7	68.6	72.1	74.0	75.2	77.2	77.3	78.8	82.9
≥ 3500	34.5	39.3	48.3	48.0	58.4	60.0	63.5	68.2	70.1	73.6	75.5	76.7	78.8	78.9	80.3	84.4
≥ 3000	37.8	42.8	51.7	51.7	62.7	64.4	68.5	73.1	75.1	78.8	80.7	82.0	84.2	84.3	85.9	89.9
≥ 2500	37.8	42.8	51.7	51.7	62.7	64.5	69.7	73.5	75.4	79.1	81.1	82.4	84.5	84.7	86.2	90.3
≥ 2000	38.2	43.3	52.3	52.3	63.5	65.3	69.5	74.0	76.5	80.3	82.3	83.6	85.7	86.0	87.5	91.6
≥ 1800	38.2	43.3	52.3	52.3	63.5	65.3	69.5	74.0	76.5	80.3	82.3	83.7	85.9	86.1	87.6	91.7
≥ 1500	38.7	43.3	52.3	52.3	63.8	65.6	69.9	74.9	76.9	80.7	82.6	84.1	86.2	86.6	88.1	92.2
≥ 1200	38.2	43.3	52.3	52.3	63.8	65.6	69.9	74.9	76.9	80.7	82.6	84.1	86.2	86.6	88.1	92.2
≥ 1000	38.2	43.3	52.3	52.3	63.9	65.7	70.0	75.1	77.0	80.8	82.7	84.2	86.3	86.7	88.2	92.3
≥ 900	38.2	43.3	52.3	52.3	63.9	65.7	70.0	75.1	77.0	80.8	82.7	84.2	86.3	86.7	88.2	92.3
≥ 800	38.2	43.3	52.3	52.3	63.9	65.7	70.0	75.1	77.0	80.8	82.7	84.2	86.3	86.7	88.2	92.3
≥ 700	38.2	43.3	52.3	52.3	63.9	65.7	70.0	75.1	77.0	80.8	82.7	84.2	86.3	86.7	88.2	92.3
≥ 600	38.2	43.3	52.3	52.3	64.0	65.8	70.1	75.2	77.1	80.9	82.9	84.3	86.5	86.8	88.4	92.6
≥ 500	38.2	43.3	52.3	52.3	64.0	65.8	70.1	75.2	77.1	81.2	83.1	84.5	86.7	87.1	88.6	92.9
≥ 400	38.2	43.3	52.3	52.3	64.0	65.8	70.1	75.2	77.1	81.2	83.2	84.7	86.8	87.2	89.0	93.6
≥ 300	38.2	43.3	52.3	52.3	64.0	65.8	70.1	75.3	77.2	81.3	83.5	85.0	87.3	87.6	89.4	95.1
≥ 200	38.2	43.3	52.3	52.3	64.0	65.8	70.1	75.3	77.2	81.3	83.5	85.0	87.3	87.9	89.9	98.4
≥ 100	38.2	43.3	52.3	52.3	64.0	65.8	70.1	75.3	77.2	81.3	83.5	85.0	87.3	88.0	90.0	99.8
≥ 0	38.2	43.3	52.3	52.3	64.0	65.8	70.1	75.3	77.2	81.3	83.5	85.0	87.3	88.0	90.2	100.0

TOTAL NUMBER OF OBSERVATIONS 834

AIR FORCE CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4-1-2  
STATION

CSAN AB MO

STATION NAME

73-81

YEARS

OCT

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1970-1979  
YEAR

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	35.5	41.4	46.2	46.2	50.5	52.8	54.1	56.2	56.7	57.2	57.5	57.7	58.1	58.3	58.5	58.9
≥ 20000	39.4	46.1	51.7	51.0	56.1	58.5	60.3	63.2	63.6	64.1	64.5	64.7	65.2	65.3	65.6	65.9
≥ 18000	39.8	46.7	51.6	51.6	57.2	59.6	61.4	64.2	64.7	65.2	65.6	65.8	66.3	66.4	66.6	67.0
IV 16000	40.4	47.2	52.3	52.3	58.0	60.4	62.2	65.1	65.6	66.1	66.5	66.7	67.3	67.5	67.7	68.1
IV 14000	40.8	47.8	52.9	52.9	59.0	61.4	63.2	66.0	66.5	67.1	67.5	67.7	68.3	68.4	68.7	69.0
IV 12000	42.2	49.4	54.4	54.4	60.9	63.4	65.3	68.2	68.7	69.3	69.6	69.9	70.5	70.6	70.8	71.2
IV 10000	44.0	51.4	56.8	56.8	64.2	66.9	69.1	72.4	73.0	73.6	73.9	74.2	74.8	74.9	75.1	75.5
IV 9000	44.5	52.3	57.7	57.7	65.1	67.7	70.0	73.2	73.8	74.4	74.8	75.0	75.6	75.7	76.0	76.3
IV 8000	45.6	53.6	59.3	59.3	67.0	69.6	72.0	75.7	76.3	77.0	77.4	77.6	78.2	78.3	78.6	78.9
IV 7000	46.4	54.8	60.6	60.6	69.1	71.9	74.3	78.0	78.6	79.4	79.8	80.0	80.6	80.7	81.0	81.3
IV 6000	46.5	55.0	60.9	60.9	69.5	72.2	74.6	78.3	78.9	79.8	80.1	80.4	81.0	81.1	81.3	81.7
IV 5000	47.6	56.1	62.3	62.3	70.9	73.7	76.2	79.9	80.5	81.3	81.7	81.9	82.5	82.7	82.9	83.3
IV 4500	47.8	56.3	62.6	62.6	71.1	73.9	76.4	80.1	80.7	81.6	81.9	82.2	82.8	82.9	83.1	83.5
IV 4000	50.2	59.3	65.8	65.8	74.8	77.5	80.0	84.0	84.6	85.5	85.9	86.1	86.7	86.8	87.1	87.4
IV 3500	51.7	60.0	66.7	66.7	76.0	78.7	81.2	85.2	85.8	86.7	87.1	87.3	87.9	88.0	88.3	88.6
IV 3000	52.9	62.1	69.6	69.6	79.7	82.4	85.2	89.4	90.0	91.0	91.5	91.7	92.3	92.5	92.7	93.1
IV 2500	53.0	62.3	69.9	69.9	79.9	82.7	85.4	89.6	90.2	91.3	91.7	92.0	92.6	92.7	92.9	93.3
IV 2000	53.3	62.7	70.2	70.2	80.3	83.0	85.8	90.0	90.7	91.9	92.3	92.7	93.3	93.4	93.7	94.0
IV 1800	53.3	62.7	70.2	70.2	80.3	83.0	85.8	90.0	90.7	91.9	92.3	92.7	93.3	93.4	93.7	94.0
IV 1500	53.5	62.9	70.6	70.6	80.6	83.4	86.1	90.3	91.0	92.2	92.7	93.1	93.7	93.8	94.0	94.4
IV 1200	53.6	63.0	70.7	70.7	80.7	83.5	86.2	90.4	91.1	92.3	92.8	93.2	93.8	93.9	94.1	94.5
IV 1000	53.7	63.2	70.8	70.8	80.9	83.7	86.6	91.1	91.9	93.1	93.5	93.9	94.5	94.6	94.9	95.2
IV 900	53.7	63.2	70.8	70.8	81.1	84.1	87.0	91.5	92.2	93.4	93.9	94.3	94.9	95.0	95.2	95.6
IV 800	53.7	63.2	70.8	70.8	81.5	84.4	87.3	92.0	92.7	94.4	94.9	95.2	95.8	95.9	96.3	96.7
IV 700	53.7	63.2	70.8	70.8	81.5	84.4	87.3	92.0	92.7	94.4	94.9	95.2	95.8	95.9	96.3	96.7
IV 600	53.7	63.2	70.8	70.8	81.5	84.4	87.3	92.0	92.7	94.4	94.9	95.2	95.8	95.9	96.3	96.7
IV 500	53.7	63.2	70.8	70.8	81.5	84.4	87.3	92.1	92.9	94.6	95.2	95.6	96.2	96.4	96.9	97.2
IV 400	53.7	63.2	70.8	70.8	81.5	84.4	87.3	92.1	92.9	94.6	95.2	95.6	96.2	96.4	97.0	97.6
IV 300	53.7	63.2	70.8	70.8	81.5	84.4	87.3	92.1	93.1	94.7	95.5	95.8	96.4	96.7	97.4	98.2
IV 200	53.7	63.2	70.8	70.8	81.5	84.4	87.3	92.2	93.2	94.9	95.6	96.1	96.7	97.1	98.1	99.8
IV 100	53.7	63.2	70.8	70.8	81.5	84.4	87.3	92.2	93.2	94.9	95.6	96.1	96.7	97.1	98.2	100.0
IV 0	53.7	63.2	70.8	70.8	81.5	84.4	87.3	92.2	93.2	94.9	95.6	96.1	96.7	97.1	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 836

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 1021 USAN AB KO

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS UTC

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ 0
NO CEILING	57.5	57.0	58.1	58.1	58.8	59.0	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 20000	57.5	65.3	66.5	66.5	67.3	67.7	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 18000	58.6	66.6	67.9	67.9	68.7	69.1	69.3	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 16000	58.9	67.1	68.6	68.6	69.5	69.8	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 14000	60.6	68.9	70.4	70.4	71.4	71.7	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 12000	63.4	71.9	73.4	73.4	74.5	74.9	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 10000	67.1	76.3	78.2	78.2	79.8	80.1	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 9000	68.3	77.6	79.5	79.5	81.1	81.4	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 8000	71.3	80.8	82.8	82.8	84.3	84.7	84.9	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 7000	71.9	81.7	83.2	83.2	85.5	85.9	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 6000	72.7	81.8	84.0	84.0	85.6	86.0	86.2	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 5000	73.4	83.2	85.4	85.4	87.1	87.4	87.7	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 4500	73.9	83.7	85.9	85.9	87.5	87.9	88.1	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4000	76.3	86.1	88.6	88.6	90.7	91.0	91.3	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 3500	76.9	87.1	89.6	89.6	91.7	92.1	92.3	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 3000	80.6	91.0	93.8	93.8	96.2	96.6	97.0	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2500	80.7	91.3	94.1	94.1	96.5	97.0	97.4	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 2000	81.2	91.9	94.7	94.7	97.1	97.6	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1800	81.4	92.1	95.1	95.1	97.6	98.1	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1500	81.4	92.1	95.1	95.1	97.6	98.1	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1200	81.4	92.1	95.1	95.1	97.6	98.1	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1000	81.4	92.1	95.1	95.1	97.6	98.2	98.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 900	81.4	92.1	95.1	95.1	97.6	98.2	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800	81.4	92.2	95.2	95.2	97.8	98.4	98.8	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	81.4	92.2	95.2	95.2	97.8	98.6	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	81.4	92.2	95.2	95.2	97.8	98.6	98.9	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	81.4	92.2	95.2	95.2	98.0	98.7	99.0	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 400	81.4	92.2	95.2	95.2	98.0	98.7	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 300	81.4	92.2	95.2	95.2	98.0	98.7	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 200	81.4	92.2	95.2	95.2	98.0	98.7	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 100	81.4	92.2	95.2	95.2	98.0	98.7	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 0	81.4	92.2	95.2	95.2	98.0	98.7	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

835

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4-1.2  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	56.3	59.7	60.0	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 20000	64.3	68.1	68.7	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 18000	65.2	69.4	70.0	70.0	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 16000	65.8	70.0	70.6	70.6	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 14000	67.4	71.6	72.2	72.2	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 12000	70.8	75.1	76.1	76.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 10000	76.6	81.5	82.7	82.7	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 9000	77.7	82.7	84.1	84.1	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 8000	80.2	85.3	86.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 7000	81.2	86.4	87.8	87.8	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 6000	81.2	86.5	87.9	87.9	88.8	88.8	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 5000	83.3	88.8	90.2	90.2	91.0	91.0	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 4500	83.4	88.9	90.3	90.3	91.2	91.2	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 4000	84.9	90.4	92.0	92.0	92.8	92.8	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 3500	86.5	92.0	93.8	93.8	94.7	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 3000	88.4	94.3	96.4	96.4	97.4	97.5	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 2500	89.0	95.0	97.3	97.3	98.2	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2000	89.2	95.2	97.5	97.5	98.7	98.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1800	89.5	95.5	97.7	97.7	98.9	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500	89.6	95.6	97.8	97.8	99.2	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200	89.6	95.6	97.8	97.8	99.2	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000	89.6	95.6	97.8	97.8	99.3	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 900	89.6	95.6	97.8	97.8	99.3	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 800	89.6	95.6	98.0	98.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700	89.6	95.6	98.0	98.0	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	89.6	95.6	98.0	98.0	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	89.6	95.6	98.0	98.0	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	89.6	95.6	98.0	98.0	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	89.6	95.6	98.0	98.0	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	89.6	95.6	98.0	98.0	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	89.6	95.6	98.0	98.0	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	89.6	95.6	98.0	98.0	99.5	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4102  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥⅓	≥0.16	≥0
NO CEILING	52.4	59.1	61.6	61.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 20000	58.9	66.5	71.1	70.0	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
IV ≥ 18000	60.4	68.1	71.5	71.5	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
IV ≥ 16000	61.5	69.3	71.8	71.8	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV ≥ 14000	61.2	69.0	72.6	72.6	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
IV ≥ 12000	63.0	71.5	75.2	75.2	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV ≥ 10000	67.6	77.0	81.1	81.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
IV ≥ 9000	68.7	78.2	82.4	82.4	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
IV ≥ 8000	71.1	81.0	85.3	85.3	89.1	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV ≥ 7000	71.7	81.6	85.9	85.9	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV ≥ 6000	71.7	81.6	85.9	85.9	90.0	90.0	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
IV ≥ 5000	72.6	82.9	87.2	87.2	91.5	91.5	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV ≥ 4500	72.8	83.1	87.4	87.4	91.9	91.9	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
IV ≥ 4000	74.4	85.0	89.7	89.7	94.3	94.3	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV ≥ 3500	75.2	86.2	90.9	90.9	95.6	95.6	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV ≥ 3000	77.0	88.3	93.1	93.1	97.8	98.0	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV ≥ 2500	77.2	88.6	93.4	93.4	98.2	98.3	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV ≥ 2000	77.6	89.2	94.1	94.1	99.0	99.2	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV ≥ 1800	77.6	89.2	94.1	94.1	99.0	99.2	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV ≥ 1500	77.6	89.2	94.1	94.1	99.0	99.2	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV ≥ 1200	77.6	89.2	94.1	94.1	99.0	99.2	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV ≥ 1000	77.6	89.2	94.1	94.1	99.0	99.2	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV ≥ 900	77.6	89.2	94.1	94.1	99.0	99.2	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
IV ≥ 800	77.8	89.4	94.3	94.3	99.2	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 700	77.8	89.4	94.3	94.3	99.2	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 600	77.8	89.4	94.3	94.3	99.2	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 500	77.8	89.4	94.3	94.3	99.2	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 400	77.8	89.4	94.3	94.3	99.2	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 300	77.8	89.4	94.3	94.3	99.2	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 200	77.8	89.4	94.3	94.3	99.2	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 100	77.8	89.4	94.3	94.3	99.2	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV ≥ 0	77.8	89.4	94.3	94.3	99.2	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 836

GENERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4-1-2  
STATION

OSAN AB NO

STATION NAME

73-81

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS U.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING	49.9	55.0	58.3	58.3	66.2	66.5	68.5	68.5	68.5	68.6	68.6	68.9	68.9	68.9	68.9	68.9
≥ 20000	54.5	60.1	64.2	64.2	73.0	73.4	75.3	75.4	75.4	75.5	75.6	76.0	76.0	76.0	76.0	76.0
≥ 18000	55.3	60.6	64.6	64.6	73.5	73.8	75.7	75.9	75.9	76.0	76.1	76.5	76.5	76.5	76.5	76.5
≥ 16000	55.7	60.6	64.6	64.6	73.5	73.8	75.7	75.9	75.9	76.0	76.1	76.5	76.5	76.5	76.5	76.5
≥ 14000	55.3	60.9	65.4	65.4	74.4	74.8	76.7	76.8	76.8	76.9	77.1	77.4	77.4	77.4	77.4	77.4
≥ 12000	56.0	62.0	66.8	66.8	76.1	76.5	78.4	78.5	78.5	78.6	78.7	79.1	79.1	79.1	79.1	79.1
≥ 10000	58.2	64.8	70.5	70.5	80.2	80.5	82.4	82.6	82.6	82.7	82.8	83.2	83.2	83.2	83.2	83.2
≥ 9000	59.0	65.7	71.4	71.4	81.5	81.8	83.8	83.9	83.9	84.0	84.1	84.5	84.5	84.5	84.5	84.5
≥ 8000	62.2	69.2	75.1	75.1	85.2	85.5	87.5	87.6	87.6	87.7	87.8	88.2	88.2	88.2	88.2	88.2
≥ 7000	63.6	70.5	76.6	76.6	86.9	87.2	89.1	89.2	89.2	89.4	89.5	89.8	89.8	89.8	89.8	89.8
≥ 6000	63.6	70.5	76.7	76.7	87.1	87.6	89.5	89.6	89.6	89.7	89.8	90.2	90.2	90.2	90.2	90.2
≥ 5000	64.8	71.7	77.9	77.9	88.3	88.8	91.0	91.2	91.2	91.3	91.4	91.8	91.8	91.8	91.8	91.8
≥ 4500	65.2	72.3	78.5	78.5	89.0	89.5	91.8	91.9	91.9	92.0	92.1	92.5	92.5	92.5	92.5	92.5
≥ 4000	67.1	74.1	80.6	80.6	91.3	91.8	94.0	94.1	94.1	94.3	94.4	94.7	94.7	94.7	94.7	94.7
≥ 3500	68.3	75.5	82.3	82.3	93.1	93.5	95.8	95.9	95.9	96.1	96.2	96.5	96.5	96.5	96.5	96.5
≥ 3000	69.7	77.1	83.9	83.9	94.9	95.3	97.6	97.7	97.7	97.8	98.0	98.3	98.3	98.3	98.3	98.3
≥ 2500	69.9	77.8	84.6	84.6	95.6	96.1	98.3	98.4	98.4	98.6	98.7	99.0	99.0	99.0	99.0	99.0
≥ 2000	69.9	77.9	84.7	84.7	95.7	96.2	98.4	98.6	98.6	98.7	98.8	99.2	99.2	99.2	99.2	99.2
≥ 1800	69.9	77.9	84.7	84.7	95.8	96.3	98.6	98.7	98.7	98.8	98.9	99.3	99.3	99.3	99.3	99.3
≥ 1500	70.3	78.3	85.1	85.1	96.2	96.7	98.9	99.0	99.0	99.2	99.3	99.6	99.6	99.6	99.6	99.6
≥ 1200	70.3	78.3	85.1	85.1	96.3	96.8	99.0	99.2	99.2	99.3	99.4	99.8	99.9	99.9	99.9	99.9
≥ 1000	70.3	78.3	85.1	85.1	96.3	96.8	99.0	99.2	99.2	99.3	99.4	99.8	99.9	99.9	99.9	99.9
≥ 900	70.3	78.3	85.1	85.1	96.3	96.8	99.0	99.2	99.2	99.3	99.4	99.8	99.9	99.9	99.9	99.9
≥ 800	70.3	78.3	85.1	85.1	96.3	96.8	99.2	99.3	99.3	99.4	99.5	99.9	100.0	100.0	100.0	100.0
≥ 700	70.3	78.3	85.1	85.1	96.3	96.8	99.2	99.3	99.3	99.4	99.5	99.9	100.0	100.0	100.0	100.0
≥ 600	70.3	78.3	85.1	85.1	96.3	96.8	99.2	99.3	99.3	99.4	99.5	99.9	100.0	100.0	100.0	100.0
≥ 500	70.3	78.3	85.1	85.1	96.3	96.8	99.2	99.3	99.3	99.4	99.5	99.9	100.0	100.0	100.0	100.0
≥ 400	70.3	78.3	85.1	85.1	96.3	96.8	99.2	99.3	99.3	99.4	99.5	99.9	100.0	100.0	100.0	100.0
≥ 300	70.3	78.3	85.1	85.1	96.3	96.8	99.2	99.3	99.3	99.4	99.5	99.9	100.0	100.0	100.0	100.0
≥ 200	70.3	78.3	85.1	85.1	96.3	96.8	99.2	99.3	99.3	99.4	99.5	99.9	100.0	100.0	100.0	100.0
≥ 100	70.3	78.3	85.1	85.1	96.3	96.8	99.2	99.3	99.3	99.4	99.5	99.9	100.0	100.0	100.0	100.0
≥ 0	70.3	78.3	85.1	85.1	96.3	96.8	99.2	99.3	99.3	99.4	99.5	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

4-1.2  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

OCT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS TEST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	42.9	47.5	50.0	50.6	55.4	56.2	57.6	59.0	59.3	60.0	60.5	60.7	61.2	61.2	61.5	62.2
≥ 20000	47.5	53.0	56.6	56.6	62.2	63.0	64.6	66.1	66.5	67.2	67.8	68.0	68.5	68.6	68.9	69.7
≥ 18000	46.2	53.7	57.4	57.4	63.1	63.9	65.5	67.1	67.4	68.2	68.7	68.9	69.4	69.5	69.8	70.6
≥ 16000	48.4	54.7	57.9	57.8	63.5	64.3	65.9	67.5	67.8	68.6	69.1	69.4	69.9	69.9	70.3	71.0
≥ 14000	49.1	54.7	58.6	58.6	64.5	65.3	66.9	68.5	68.9	69.6	70.1	70.4	70.9	70.9	71.3	72.1
≥ 12000	50.7	56.6	60.7	60.7	66.7	67.5	69.1	70.7	71.1	71.9	72.4	72.7	73.2	73.2	73.6	74.4
≥ 10000	53.4	59.6	64.1	64.1	70.7	71.6	73.2	75.0	75.4	76.2	76.8	77.0	77.6	77.6	78.0	78.8
≥ 9000	54.1	60.5	65.1	65.1	71.8	72.7	74.4	76.1	76.6	77.4	78.0	78.2	78.8	78.8	79.2	80.0
≥ 8000	56.4	63.1	67.9	67.9	74.9	75.8	77.5	79.3	79.8	80.7	81.2	81.5	82.0	82.1	82.4	83.2
≥ 7000	57.4	64.3	69.2	69.2	76.4	77.3	79.1	81.0	81.5	82.4	83.0	83.2	83.7	83.8	84.2	85.0
≥ 6000	57.5	64.4	69.4	69.4	76.7	77.6	79.4	81.3	81.8	82.7	83.3	83.5	84.1	84.1	84.5	85.3
≥ 5000	58.7	65.7	70.7	70.7	78.1	79.0	80.9	82.8	83.3	84.3	84.8	85.1	85.6	85.6	86.0	86.8
≥ 4500	59.7	66.1	71.1	71.1	78.4	79.4	81.2	83.2	83.7	84.6	85.2	85.4	86.0	86.0	86.4	87.2
≥ 4000	61.1	68.2	73.5	73.5	81.1	82.1	84.0	86.0	86.5	87.5	88.0	88.3	88.8	88.9	89.3	90.0
≥ 3500	62.2	69.6	75.7	75.0	82.7	83.7	85.6	87.7	88.3	89.2	89.8	90.0	90.6	90.6	91.0	91.8
≥ 3000	64.6	72.3	78.7	78.0	86.0	87.0	89.1	91.2	91.8	92.8	93.4	93.7	94.2	94.3	94.7	95.5
≥ 2500	64.8	72.6	78.4	78.4	86.4	87.5	89.5	91.7	92.3	93.3	93.9	94.1	94.7	94.7	95.2	95.9
≥ 2000	65.1	73.0	79.8	78.8	86.9	87.9	90.0	92.2	92.8	93.8	94.4	94.7	95.2	95.3	95.7	96.5
≥ 1800	65.2	73.0	78.9	78.9	87.0	88.0	90.1	92.3	92.9	93.9	94.5	94.8	95.4	95.4	95.9	96.6
≥ 1500	65.3	73.2	79.0	79.0	87.2	88.2	90.3	92.5	93.1	94.1	94.7	95.0	95.6	95.7	96.1	96.9
≥ 1200	65.3	73.2	79.1	79.1	87.3	88.4	90.5	92.7	93.2	94.3	94.9	95.2	95.7	95.8	96.2	97.0
≥ 1000	65.3	73.3	79.1	79.1	87.4	88.5	90.6	92.9	93.4	94.5	95.1	95.3	95.9	96.0	96.4	97.2
≥ 900	65.3	73.3	79.1	79.1	87.5	88.5	90.6	92.9	93.5	94.5	95.1	95.4	96.0	96.1	96.5	97.3
≥ 800	65.3	73.3	79.2	79.2	87.6	88.7	90.8	93.1	93.7	94.8	95.4	95.6	96.2	96.3	96.8	97.6
≥ 700	65.3	73.3	79.2	79.2	87.6	88.8	90.9	93.2	93.7	94.8	95.4	95.7	96.3	96.4	96.9	97.7
≥ 600	65.3	73.3	79.2	79.2	87.7	88.8	91.0	93.3	93.8	94.9	95.5	95.8	96.4	96.5	96.9	97.8
≥ 500	65.3	73.3	79.2	79.2	87.7	88.8	91.0	93.3	93.9	95.0	95.6	95.9	96.5	96.6	97.1	98.0
≥ 400	65.3	73.3	79.2	79.2	87.7	88.8	91.0	93.3	93.9	95.0	95.7	95.9	96.5	96.7	97.2	98.1
≥ 300	65.3	73.3	79.2	79.2	87.7	88.8	91.0	93.3	93.9	95.1	95.8	96.1	96.7	96.8	97.4	98.5
≥ 200	65.3	73.3	79.2	79.2	87.7	88.8	91.0	93.3	93.9	95.2	95.8	96.2	96.9	97.1	97.7	99.6
≥ 100	65.3	73.3	79.2	79.2	87.7	88.8	91.0	93.3	93.9	95.2	95.8	96.2	96.9	97.1	97.7	99.9
≥ 0	65.3	73.3	79.2	79.2	87.7	88.8	91.0	93.3	93.9	95.2	95.8	96.2	96.9	97.1	97.7	100.0

TOTAL NUMBER OF OBSERVATIONS 6686

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS - LT

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥8	≥6	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING	38.3	42.9	48.5	48.5	56.9	57.9	60.7	62.9	62.9	64.1	64.2	64.2	64.7	64.7	64.9	67.2
≥ 20000	47.8	45.7	51.5	51.5	61.1	62.6	65.8	68.2	68.3	69.5	69.6	69.8	70.3	70.3	70.5	72.7
≥ 18000	40.9	45.7	51.5	51.5	61.1	62.6	65.8	68.2	68.3	69.5	69.6	69.8	70.3	70.3	70.5	72.7
≥ 16000	47.8	45.8	51.7	51.7	61.2	62.7	65.9	68.3	68.4	69.6	69.8	69.9	70.4	70.4	70.6	72.9
≥ 14000	41.1	46.1	51.9	51.9	61.5	62.9	66.2	68.5	68.6	69.9	70.0	70.1	70.6	70.6	70.9	73.1
≥ 12000	41.5	46.5	52.3	52.3	61.8	63.3	66.5	68.9	69.0	70.3	70.4	70.5	71.0	71.0	71.3	73.6
≥ 10000	42.5	47.7	53.9	53.9	63.4	64.9	68.2	70.5	70.8	72.0	72.4	72.5	73.1	73.1	73.4	75.7
≥ 9000	42.9	48.1	54.3	54.3	63.8	65.3	68.5	70.9	71.1	72.4	72.7	72.9	73.5	73.5	73.7	76.1
≥ 8000	44.5	50.2	56.8	56.8	66.3	67.8	71.0	73.4	73.6	74.8	75.2	75.3	76.0	76.0	76.2	78.9
≥ 7000	45.1	50.8	57.4	57.4	66.9	68.4	71.6	74.0	74.2	75.5	75.8	76.0	76.6	76.6	76.8	79.6
≥ 6000	45.5	51.2	57.9	57.9	67.4	68.9	72.1	74.5	74.7	76.0	76.3	76.5	77.1	77.1	77.3	80.7
≥ 5000	46.2	52.0	58.7	58.7	68.3	69.8	73.0	75.3	75.6	76.8	77.2	77.3	77.9	77.9	78.2	80.9
≥ 4500	47.6	53.4	60.1	60.1	69.6	71.1	74.3	76.7	77.0	78.2	78.7	78.8	79.4	79.4	79.7	82.4
≥ 4000	52.4	59.0	65.8	65.8	76.2	77.9	81.2	83.6	84.0	85.3	85.7	85.9	86.5	86.6	86.9	89.6
≥ 3500	53.8	67.6	67.5	67.5	78.1	79.8	83.1	85.6	86.0	87.2	87.9	88.0	88.6	88.7	89.0	91.7
≥ 3000	55.9	63.1	77.3	70.3	81.7	83.4	86.7	89.2	89.7	91.0	91.6	91.7	92.4	92.6	92.9	95.7
≥ 2500	56.7	63.4	70.8	70.8	82.5	84.3	87.6	90.1	90.6	91.8	92.4	92.6	93.3	93.4	93.8	96.5
≥ 2000	56.4	63.9	71.5	71.5	83.6	85.4	88.7	91.3	92.1	93.3	93.9	94.1	94.8	94.9	95.3	98.0
≥ 1800	56.5	64.1	71.6	71.6	83.8	85.5	88.8	91.4	92.2	93.4	94.1	94.2	94.9	95.0	95.4	98.1
≥ 1500	56.6	64.2	71.7	71.7	83.9	85.6	89.0	91.6	92.3	93.6	94.2	94.3	95.0	95.2	95.5	98.3
≥ 1200	56.6	64.3	72.1	72.1	84.5	86.2	89.6	92.2	92.9	94.2	94.8	94.9	95.7	95.8	96.2	98.9
≥ 1000	56.6	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	99.0
≥ 900	56.6	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	99.1
≥ 800	56.6	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	99.1
≥ 700	56.6	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	99.1
≥ 600	56.6	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	99.1
≥ 500	56.6	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	99.1
≥ 400	56.6	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	99.1
≥ 300	56.6	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	99.1
≥ 200	56.6	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	99.3
≥ 100	56.6	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	99.5
≥ 0	56.4	64.3	72.1	72.1	84.5	86.4	89.7	92.3	93.1	94.3	94.9	95.0	95.8	95.9	96.3	100.0

TOTAL NUMBER OF OBSERVATIONS 807

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



2  
1  
FEDERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
7112

USAN AB XO

STATION NAME

73-81

YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ 0
NO CEILING	34.5	38.0	43.1	43.1	49.5	50.0	53.3	55.2	55.3	57.7	58.3	58.6	59.1	59.3	60.4	62.3
≥ 20000	37.1	40.6	46.3	46.3	53.7	54.5	57.9	59.8	59.9	62.7	63.4	63.6	64.1	64.4	65.5	67.4
IV 18000	37.3	40.8	46.5	46.5	54.0	54.7	58.2	60.0	60.2	62.9	63.6	63.9	64.4	64.6	65.8	67.6
IV 16000	37.3	40.8	46.5	46.5	54.0	54.7	58.2	60.0	60.2	62.9	63.6	63.9	64.4	64.6	65.8	67.6
IV 14000	37.3	40.8	46.5	46.5	54.0	54.7	58.2	60.0	60.2	62.9	63.6	63.9	64.4	64.6	65.8	67.6
IV 12000	37.6	41.1	46.8	46.8	54.2	55.0	58.4	60.3	60.4	63.2	63.9	64.1	64.6	64.9	66.0	67.9
IV 10000	39.2	42.7	48.5	48.5	56.1	56.8	60.5	62.5	62.7	65.5	66.3	66.5	67.1	67.4	68.5	70.3
IV 9000	39.8	43.3	49.1	49.1	56.7	57.4	61.2	63.2	63.3	66.1	66.9	67.1	67.7	68.0	69.1	71.0
IV 8000	41.7	45.3	51.1	51.1	58.8	59.6	63.3	65.3	65.4	68.2	69.0	69.2	69.9	70.1	71.2	73.4
IV 7000	42.8	46.4	52.2	52.2	59.9	60.7	64.4	66.4	66.5	69.4	70.1	70.3	71.0	71.2	72.3	74.6
IV 6000	43.1	46.7	52.5	52.5	60.4	61.2	64.9	66.9	67.0	69.9	70.6	70.8	71.5	71.7	72.8	75.1
IV 5000	43.4	47.0	53.3	53.3	61.5	62.3	66.0	68.0	68.1	71.0	71.7	72.0	72.6	72.8	73.9	76.2
IV 4500	44.2	48.1	54.5	54.5	62.7	63.4	67.1	69.1	69.2	72.2	73.0	73.2	73.8	74.1	75.2	77.4
IV 4000	41.4	46.0	52.7	52.7	61.3	62.1	65.9	67.9	68.0	71.1	71.9	72.1	72.8	73.0	74.1	76.5
IV 3500	52.6	57.2	64.0	64.0	73.0	73.7	77.7	79.7	79.8	83.0	83.7	84.0	84.6	84.9	86.0	88.3
IV 3000	55.7	59.9	67.6	67.6	77.7	78.7	82.8	85.2	85.4	88.7	89.5	89.7	90.3	90.6	91.7	94.0
IV 2500	55.3	60.4	68.1	68.1	78.5	79.5	83.6	86.1	86.2	89.6	90.3	90.6	91.2	91.4	92.6	94.9
IV 2000	55.5	60.8	68.5	68.5	79.2	80.1	84.2	86.7	86.8	90.4	91.2	91.4	92.1	92.3	93.4	95.8
IV 1800	55.5	60.8	68.5	68.5	79.2	80.1	84.2	86.7	86.8	90.4	91.2	91.4	92.1	92.3	93.4	95.8
IV 1500	55.6	60.9	68.6	68.6	79.3	80.3	84.4	87.0	87.1	90.7	91.4	91.7	92.3	92.6	93.7	96.0
IV 1200	55.6	60.9	68.6	68.6	79.7	80.6	84.7	87.3	87.5	91.1	91.8	92.1	92.7	92.9	94.0	96.4
IV 1000	55.6	60.9	68.6	68.6	79.8	80.8	84.9	87.6	87.7	91.3	92.1	92.3	92.9	93.2	94.3	96.7
IV 900	55.6	60.9	68.6	68.6	79.8	80.8	84.9	87.6	87.7	91.3	92.1	92.3	92.9	93.2	94.3	96.7
IV 800	55.6	60.9	68.6	68.6	79.8	80.8	84.9	87.6	87.7	91.3	92.1	92.3	92.9	93.2	94.3	96.7
IV 700	55.6	60.9	68.6	68.6	79.8	80.8	84.9	87.6	87.7	91.3	92.1	92.3	92.9	93.2	94.3	96.7
IV 600	55.6	60.9	68.6	68.6	79.8	80.8	84.9	87.7	87.8	91.4	92.2	92.4	93.1	93.3	94.4	96.8
IV 500	55.7	61.0	68.7	68.7	79.9	80.9	85.0	87.8	88.0	91.6	92.3	92.6	93.2	93.4	94.5	97.0
IV 400	55.7	61.0	68.7	68.7	79.9	80.9	85.0	87.8	88.0	91.9	92.7	92.9	93.5	93.8	94.9	97.4
IV 300	55.7	61.0	68.7	68.7	79.9	80.9	85.0	87.8	88.0	91.9	92.7	93.1	93.7	93.9	95.0	97.9
IV 200	55.7	61.0	68.7	68.7	80.0	81.0	85.1	88.0	88.1	92.1	92.8	93.2	93.8	94.0	95.3	98.1
IV 100	55.7	61.0	68.7	68.7	80.0	81.0	85.1	88.0	88.1	92.1	92.8	93.2	93.8	94.0	95.4	98.9
IV 0	55.7	61.0	68.7	68.7	80.0	81.0	85.1	88.0	88.1	92.1	92.8	93.2	93.8	94.0	95.4	100.0

TOTAL NUMBER OF OBSERVATIONS 806

GLOBAL CLIMATOLOGY BRANCH  
AFHETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

4 1 2  
STATION

CSAN AB KO

STATION NAME

73-81

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

6600-0870  
HOURS (LT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0.1	≥ 0	≥ 0
NO CEILING	26.7	31.3	35.2	35.2	42.2	42.8	45.1	47.8	48.9	50.0	52.4	53.0	53.9	54.4	54.9	57.7
≥ 20000	26.9	32.6	37.9	37.9	46.8	47.6	50.2	53.4	54.5	57.0	58.5	59.2	60.2	60.7	61.2	64.3
IV 18000	29.2	33.1	38.4	38.4	47.4	48.3	50.9	54.1	55.2	57.7	59.2	60.0	60.9	61.4	61.9	65.0
IV 16000	29.2	33.1	38.4	38.4	47.5	48.4	51.0	54.2	55.3	57.8	59.3	60.1	61.1	61.6	62.1	65.2
IV 14000	29.5	33.5	38.8	38.8	48.0	48.9	51.6	54.9	56.0	58.5	60.0	60.7	61.7	62.2	62.7	65.8
IV 12000	29.9	33.7	39.1	39.1	48.3	49.1	51.9	55.1	56.2	58.7	60.2	60.9	61.9	62.4	62.9	66.0
IV 10000	30.6	34.7	40.3	40.3	50.1	51.0	53.7	57.1	58.2	60.8	62.4	63.2	64.2	64.7	65.4	68.5
IV 9000	31.6	35.6	41.3	41.3	51.2	52.1	54.9	58.2	59.3	61.9	63.6	64.3	65.3	65.8	66.5	69.7
IV 8000	33.3	37.4	43.4	43.4	53.9	54.7	57.8	61.3	62.4	65.0	66.7	67.4	68.4	68.9	69.7	72.9
IV 7000	33.4	38.1	44.2	44.2	54.9	55.7	58.8	62.3	63.4	66.0	67.7	68.4	69.4	69.9	70.6	73.9
IV 6000	34.2	38.4	44.5	44.5	55.2	56.1	59.2	62.7	63.8	66.4	68.0	68.8	69.8	70.3	71.0	74.3
IV 5000	35.2	38.4	45.5	45.5	56.3	57.2	60.3	63.9	65.0	67.7	69.3	70.0	71.0	71.5	72.3	75.5
IV 4500	35.9	41.2	46.3	46.3	57.1	58.0	61.1	64.7	65.8	68.4	70.0	70.8	71.8	72.3	73.0	76.2
IV 4000	39.9	44.8	51.2	51.2	63.3	64.2	67.3	70.9	72.3	75.0	76.6	77.4	78.5	79.0	79.7	83.0
IV 3500	43.3	48.1	55.7	55.0	67.3	68.2	71.5	75.5	77.0	80.0	81.6	82.3	83.5	84.0	84.7	87.9
IV 3000	45.1	50.6	58.1	58.1	71.3	72.4	76.1	80.2	81.7	85.1	86.7	87.7	88.9	89.4	90.2	93.4
IV 2500	45.4	51.0	58.6	58.6	71.8	72.9	76.6	80.8	82.3	85.8	87.4	88.4	89.7	90.2	90.9	94.2
IV 2000	45.9	51.5	59.2	59.2	72.4	73.5	77.2	81.5	83.0	86.4	88.1	89.1	90.3	90.8	91.5	94.8
IV 1800	45.9	51.5	59.2	59.2	72.4	73.5	77.2	81.5	83.0	86.4	88.1	89.1	90.3	90.8	91.5	94.8
IV 1500	46.0	51.6	59.3	59.3	72.5	73.6	77.4	81.6	83.1	86.6	88.4	89.4	90.7	91.2	91.9	95.1
IV 1200	46.7	51.6	59.3	59.3	72.5	73.6	77.4	81.6	83.1	86.6	88.4	89.4	90.7	91.2	91.9	95.1
IV 1000	46.1	51.7	59.5	59.5	72.8	73.9	77.6	81.8	83.3	86.8	88.7	89.7	91.0	91.5	92.3	95.5
IV 900	46.1	51.7	59.5	59.5	72.8	73.9	77.6	81.8	83.3	86.8	88.7	89.7	91.0	91.5	92.3	95.5
IV 800	46.1	51.7	59.5	59.5	72.8	73.9	77.6	81.8	83.3	86.8	88.7	89.7	91.0	91.5	92.3	95.5
IV 700	46.1	51.7	59.5	59.5	72.8	73.9	77.6	81.8	83.3	86.8	88.7	89.7	91.2	91.7	92.4	95.6
IV 600	46.1	51.7	59.5	59.5	72.8	73.9	77.6	81.8	83.3	86.8	88.7	89.7	91.2	91.7	92.4	95.6
IV 500	46.3	51.9	59.8	59.8	73.1	74.3	78.0	82.3	83.8	87.3	89.2	90.2	91.7	92.2	92.9	96.1
IV 400	46.3	51.9	59.8	59.8	73.1	74.3	78.0	82.5	84.0	87.4	89.3	90.3	91.8	92.3	93.0	96.5
IV 300	46.3	51.9	59.8	59.8	73.1	74.3	78.0	82.5	84.0	87.4	89.3	90.3	91.8	92.3	93.2	97.0
IV 200	46.3	51.9	59.8	59.8	73.1	74.3	78.0	82.5	84.0	87.4	89.3	90.3	91.8	92.4	93.3	98.0
IV 100	46.3	51.9	59.8	59.8	73.1	74.3	78.0	82.5	84.0	87.4	89.3	90.3	91.8	92.4	93.3	99.8
IV 0	46.3	51.9	59.8	59.8	73.1	74.3	78.0	82.5	84.0	87.4	89.3	90.3	91.8	92.4	93.3	100.0

TOTAL NUMBER OF OBSERVATIONS 874

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FEDERAL CLIMATOLOGY BRANCH  
DAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4 172  
STATION

USAN AB KO  
STATION NAME

73-81  
YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS - LT

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.4	≥.3	≥.1	≥.16	≥.1	≥0
NO CEILING	33.3	33.4	37.5	37.5	43.8	44.7	47.6	50.8	51.4	51.9	53.2	53.4	53.8	53.9	54.3	55.0
≥ 20000	30.9	36.6	41.3	41.3	43.9	49.9	53.2	56.9	57.6	58.7	60.0	60.3	60.7	60.8	61.2	62.1
≥ 18000	31.1	36.8	41.5	41.5	45.2	51.2	53.4	57.1	57.8	59.0	60.2	60.6	60.9	61.1	61.4	62.3
≥ 16000	31.1	37.0	41.8	41.8	49.4	53.4	53.6	57.4	58.1	59.3	60.6	60.9	61.3	61.4	61.8	62.7
≥ 14000	31.3	37.6	42.4	42.4	51.3	51.3	54.9	58.6	59.3	60.6	61.8	62.2	62.7	62.8	63.2	64.0
≥ 12000	32.3	38.2	43.1	43.1	51.4	52.4	56.0	59.8	60.6	61.8	63.0	63.4	63.9	64.0	64.4	65.3
≥ 10000	32.9	39.2	44.3	44.3	53.4	54.8	58.6	62.7	63.5	64.9	66.1	66.5	67.2	67.4	67.7	68.7
≥ 9000	33.4	39.7	44.9	44.9	54.4	55.9	60.0	64.0	64.9	66.3	67.5	67.9	68.6	68.7	69.1	70.1
≥ 8000	35.4	41.9	47.5	47.5	57.6	59.3	63.5	67.7	68.6	70.0	71.3	71.7	72.4	72.6	72.9	73.9
≥ 7000	36.2	43.3	48.9	48.9	59.2	61.1	65.3	69.6	70.5	71.8	73.2	73.5	74.3	74.4	74.9	75.9
≥ 6000	36.8	43.9	49.6	49.6	59.8	61.7	65.9	70.2	71.1	72.4	73.8	74.2	74.9	75.0	75.5	76.5
≥ 5000	37.8	45.3	50.7	50.7	61.2	63.0	67.5	71.8	72.8	74.2	75.5	75.9	76.6	76.8	77.3	78.2
≥ 4500	38.2	45.4	51.2	51.2	61.9	63.8	68.2	72.6	73.5	74.9	76.3	76.6	77.4	77.5	78.0	79.0
≥ 4000	41.2	49.1	55.1	55.1	66.5	68.4	72.9	77.6	78.9	80.2	81.6	82.1	82.8	82.9	83.4	84.4
≥ 3500	43.9	52.2	58.5	58.5	71.2	72.1	76.9	81.7	82.9	84.4	85.9	86.4	87.1	87.3	87.8	88.8
≥ 3000	45.4	54.1	61.9	60.9	73.5	75.6	81.2	86.4	87.6	89.4	90.9	91.3	92.1	92.2	92.7	93.7
≥ 2500	45.5	54.3	61.2	61.2	73.8	75.9	81.6	86.8	88.1	89.9	91.5	92.0	92.7	92.8	93.3	94.3
≥ 2000	46.0	54.8	62.1	62.1	74.9	77.0	82.7	87.9	89.2	91.0	92.6	93.1	93.8	93.9	94.4	95.4
≥ 1800	46.0	54.8	62.1	62.1	74.9	77.0	82.7	88.0	89.4	91.1	92.7	93.2	93.9	94.1	94.6	95.6
≥ 1500	46.0	54.8	62.1	62.1	75.0	77.1	82.8	88.1	89.5	91.5	93.1	93.6	94.3	94.4	94.9	95.9
≥ 1200	46.1	54.9	62.2	62.2	75.2	77.3	82.9	88.3	89.6	91.6	93.4	93.9	94.7	94.8	95.3	96.3
≥ 1000	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.5	89.9	91.8	93.7	94.2	94.9	95.1	95.8	96.8
≥ 900	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.5	89.9	91.8	93.7	94.2	94.9	95.1	95.8	96.8
≥ 800	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.5	89.9	91.8	93.7	94.2	94.9	95.1	95.8	96.8
≥ 700	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.5	89.9	91.8	93.7	94.2	94.9	95.1	95.8	96.8
≥ 600	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.6	90.0	92.0	93.8	94.3	95.2	95.3	96.0	97.0
≥ 500	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.6	90.0	92.1	93.9	94.4	95.3	95.4	96.2	97.5
≥ 400	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.6	90.0	92.1	93.9	94.4	95.3	95.4	96.2	97.9
≥ 300	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.6	90.0	92.1	94.1	94.6	95.4	95.6	96.3	98.3
≥ 200	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.6	90.0	92.1	94.1	94.6	95.4	95.6	96.3	98.9
≥ 100	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.6	90.0	92.1	94.1	94.6	95.4	95.6	96.3	99.6
≥ 0	46.1	54.9	62.3	62.3	75.3	77.4	83.1	88.8	90.1	92.2	94.2	94.7	95.6	95.7	96.4	100.0

TOTAL NUMBER OF OBSERVATIONS 809

GENERAL CLIMATOLOGY BRANCH  
METAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
USAN AB AC

73-81

NOV

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1233-1422  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	43.9	52.2	53.6	53.6	55.7	55.9	56.3	56.7	56.7	56.7	56.7	56.8	56.9	56.9	56.9	56.9
≥ 20000	54.2	57.9	60.7	60.0	63.0	63.3	63.8	64.2	64.2	64.2	64.2	64.3	64.4	64.4	64.4	64.4
≥ 18000	54.8	58.5	60.6	60.6	63.8	64.2	64.8	65.2	65.2	65.2	65.2	65.3	65.4	65.4	65.4	65.4
≥ 16000	55.1	58.8	60.9	60.9	64.1	64.4	65.1	65.4	65.4	65.4	65.4	65.6	65.7	65.7	65.7	65.7
≥ 14000	56.3	60.1	62.3	62.3	65.6	65.9	66.5	66.9	66.9	66.9	66.9	67.0	67.2	67.2	67.2	67.2
≥ 12000	57.5	61.6	64.0	64.0	67.4	67.8	68.4	68.8	68.8	68.8	68.8	68.9	69.7	69.0	69.0	69.0
≥ 10000	59.8	64.3	66.8	66.8	70.5	70.9	71.5	72.1	72.1	72.1	72.1	72.3	72.5	72.5	72.5	72.5
≥ 9000	60.1	64.7	67.2	67.2	70.9	71.2	72.0	72.6	72.6	72.6	72.6	72.8	73.0	73.0	73.0	73.0
≥ 8000	62.3	66.1	70.9	70.9	75.4	76.0	77.0	77.8	77.8	77.8	77.8	78.0	78.1	78.1	78.1	78.1
≥ 7000	64.3	70.2	73.0	73.0	77.5	78.1	79.1	79.9	79.9	79.9	79.9	80.1	80.2	80.2	80.2	80.2
≥ 6000	65.3	71.7	73.5	73.5	78.3	78.9	79.9	80.6	80.6	80.6	80.6	80.9	81.7	81.7	81.7	81.7
≥ 5000	65.7	71.9	74.8	74.8	79.8	80.4	81.4	82.1	82.1	82.1	82.1	82.3	82.5	82.5	82.5	82.5
≥ 4500	66.3	72.6	75.6	75.6	80.5	81.1	82.1	82.8	82.8	82.8	82.8	83.1	83.2	83.2	83.2	83.2
≥ 4000	70.5	77.4	80.4	80.4	85.6	86.2	87.2	87.9	87.9	87.9	87.9	88.1	88.3	88.3	88.3	88.3
≥ 3500	72.6	79.9	83.0	83.0	88.4	89.0	90.0	90.7	90.7	90.7	90.7	91.0	91.1	91.1	91.1	91.1
≥ 3000	75.6	83.3	87.3	87.3	93.6	94.2	95.3	96.5	96.5	96.5	96.5	96.7	97.2	97.2	97.2	97.2
≥ 2500	75.9	83.8	87.8	87.8	94.2	94.8	95.9	97.2	97.2	97.2	97.2	97.3	97.5	97.8	97.8	97.8
≥ 2000	76.0	84.0	87.9	87.9	94.4	95.1	96.3	97.5	97.5	97.5	97.5	97.7	97.9	98.1	98.1	98.1
≥ 1800	76.3	84.0	87.9	87.9	94.4	95.1	96.3	97.5	97.5	97.5	97.5	97.7	97.9	98.1	98.1	98.1
≥ 1500	76.3	84.2	88.1	88.1	94.8	95.4	96.7	97.9	97.9	97.9	98.0	98.3	98.5	98.5	98.5	98.5
≥ 1200	76.3	84.2	88.1	88.1	94.8	95.6	96.8	98.1	98.1	98.1	98.3	98.5	98.8	98.8	98.8	98.8
≥ 1000	76.4	84.3	88.3	88.3	95.1	95.8	97.0	98.4	98.4	98.4	98.5	98.8	99.0	99.0	99.0	99.0
≥ 900	76.4	84.3	88.3	88.3	95.1	95.8	97.2	98.6	98.6	98.6	98.8	99.0	99.3	99.3	99.3	99.3
≥ 800	76.4	84.3	88.3	88.3	95.1	95.8	97.2	98.6	98.6	98.6	98.8	99.0	99.3	99.3	99.3	99.3
≥ 700	76.4	84.3	88.3	88.3	95.1	95.8	97.2	98.6	98.6	98.6	98.8	99.0	99.3	99.3	99.3	99.3
≥ 600	76.4	84.3	88.3	88.3	95.1	95.8	97.2	98.6	98.6	98.6	98.8	99.0	99.3	99.3	99.3	99.3
≥ 500	76.4	84.3	88.3	88.3	95.1	95.8	97.2	98.6	98.6	98.6	98.8	99.0	99.3	99.3	99.3	99.3
≥ 400	76.4	84.3	88.3	88.3	95.2	95.9	97.3	98.8	98.8	98.8	98.9	99.1	99.4	99.4	99.4	99.4
≥ 300	76.4	84.3	88.3	88.3	95.2	95.9	97.3	98.8	98.8	98.8	98.9	99.1	99.4	99.4	99.4	99.4
≥ 200	76.4	84.3	88.3	88.3	95.2	95.9	97.3	98.8	98.8	98.8	98.9	99.1	99.4	99.4	99.4	99.4
≥ 100	76.4	84.3	88.3	88.3	95.2	95.9	97.3	98.8	98.8	98.8	98.9	99.0	99.4	99.4	99.4	99.4
≥ 0	76.4	84.3	88.3	88.3	95.2	95.9	97.4	98.9	98.9	98.9	99.0	99.1	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 810

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
1512

STATION NAME  
USAN AB MD

YEARS  
73-81

MONTH  
NOV

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING	52.1	56.4	57.6	57.6	58.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 20000	57.1	62.4	64.6	64.6	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 18000	57.6	62.9	65.3	65.3	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 16000	57.6	62.9	65.3	65.3	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 14000	57.6	63.4	65.3	65.8	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 12000	59.3	65.0	67.5	67.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 10000	62.3	68.4	71.1	71.0	73.3	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 9000	62.5	68.9	71.4	71.4	73.8	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 8000	65.4	72.1	75.2	75.2	77.8	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 7000	67.1	74.0	77.3	77.3	79.9	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 6000	68.1	75.0	78.2	78.2	80.6	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 5000	69.3	76.5	80.7	80.0	82.7	82.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4500	69.7	76.9	80.3	80.3	83.1	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 4000	73.3	80.8	84.5	84.3	87.6	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3500	74.9	82.8	86.3	86.3	89.9	90.2	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 3000	79.4	87.1	91.3	91.0	95.2	95.8	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 2500	79.4	87.5	91.3	91.3	95.9	96.4	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 2000	80.1	88.4	92.3	92.3	96.8	97.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1800	80.2	88.5	92.5	92.5	96.9	97.5	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1500	81.6	88.9	93.0	93.0	97.5	98.1	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 1200	81.6	88.9	93.0	93.0	97.8	98.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000	81.6	88.9	93.0	93.0	97.8	98.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 900	81.6	88.9	93.0	93.0	97.8	98.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 800	81.6	88.9	93.0	93.0	97.8	98.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 700	81.6	88.9	93.0	93.0	97.8	98.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	81.6	88.9	93.1	93.1	97.9	98.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	80.6	88.9	93.1	93.1	97.9	98.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	80.6	88.9	93.1	93.1	97.9	98.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	80.6	88.9	93.1	93.1	97.9	98.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	80.6	88.9	93.1	93.1	97.9	98.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	80.6	88.9	93.1	93.1	97.9	98.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	80.6	88.9	93.1	93.1	97.9	98.5	99.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 809

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFD WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4712  
STATION

OSAN AB KC

STATION NAME

73-81

YEARS

NOV  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2400  
HOURS (LT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.0	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1	≥ 0.05	≥ 0.025	≥ 0.01
NO CEILING	47.8	55.3	58.5	58.5	62.1	62.6	63.1	63.3	63.3	63.3	63.5	63.5	63.5	63.5	63.5	63.6
≥ 20000	51.7	59.3	63.7	63.0	67.9	68.6	69.8	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.2
≥ 18000	51.1	59.4	63.1	63.1	68.0	68.8	69.9	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.4
≥ 16000	51.1	59.4	63.1	63.1	68.0	68.8	69.9	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.4
≥ 14000	51.4	60.0	63.7	63.7	68.6	69.4	70.5	70.7	70.7	70.7	70.9	70.9	70.9	70.9	70.9	71.0
≥ 12000	52.3	61.4	65.3	65.3	70.9	71.6	73.0	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.5
≥ 10000	53.3	63.2	67.4	67.4	73.5	74.2	75.6	75.8	75.8	75.8	75.9	75.9	75.9	75.9	75.9	76.0
≥ 9000	54.3	64.0	68.1	68.1	74.2	74.9	76.3	76.5	76.5	76.5	76.7	76.7	76.7	76.7	76.7	76.8
≥ 8000	56.4	66.4	70.9	70.9	78.1	79.1	80.7	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.4
≥ 7000	57.9	68.0	72.7	72.7	80.0	81.0	82.6	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.2
≥ 6000	58.8	69.0	73.7	73.7	81.0	82.0	83.6	84.0	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.2
≥ 5000	59.8	70.1	74.9	74.9	82.3	83.5	85.1	85.4	85.4	85.4	85.6	85.6	85.6	85.6	85.6	85.7
≥ 4500	60.4	71.1	75.9	75.9	83.3	84.4	86.0	86.4	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.7
≥ 4000	63.1	73.8	78.8	78.8	86.3	87.4	89.0	89.4	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.6
≥ 3500	65.1	76.2	81.1	81.1	88.9	90.0	91.6	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.2
≥ 3000	68.3	79.9	84.8	84.8	93.3	94.6	96.3	96.7	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.9
≥ 2500	68.4	80.0	85.2	85.2	93.7	94.9	96.8	97.3	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.7
≥ 2000	68.9	80.5	85.8	85.8	94.4	95.7	97.8	98.5	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.9
≥ 1800	68.9	80.5	85.8	85.8	94.4	95.7	97.8	98.5	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.9
≥ 1500	69.1	80.7	86.0	86.0	94.7	95.9	98.0	98.8	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.3
≥ 1200	69.1	80.9	86.2	86.2	94.8	96.0	98.1	98.9	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.4
≥ 1000	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.0	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.8
≥ 900	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.0	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.8
≥ 800	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.0	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.8
≥ 700	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.1	99.5	99.5	99.8	99.8	99.8	99.8	99.8	99.9
≥ 600	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	100.0
≥ 500	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	100.0
≥ 400	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	100.0
≥ 300	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	100.0
≥ 200	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	100.0
≥ 100	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	100.0
≥ 0	69.1	80.9	86.2	86.2	94.9	96.2	98.3	99.3	99.6	99.6	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
12

OSAN AB KC

STATION NAME

73-81

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	43.2	47.6	54.6	54.6	61.6	62.3	64.0	64.6	64.7	64.8	64.8	64.8	64.8	65.1	65.1	65.3
≥ 20000	46.7	53.8	59.8	59.8	68.0	69.5	71.2	71.9	72.2	72.7	72.7	72.7	72.7	73.0	73.0	73.2
≥ 18000	46.9	54.1	60.0	60.0	68.3	69.8	71.5	72.1	72.5	73.0	73.0	73.0	73.0	73.2	73.2	73.5
≥ 16000	46.9	54.1	60.0	60.0	68.3	69.8	71.5	72.1	72.5	73.0	73.0	73.0	73.0	73.2	73.2	73.5
≥ 14000	47.2	54.4	60.4	60.4	68.6	70.1	71.9	72.5	72.8	73.3	73.3	73.3	73.3	73.6	73.6	73.8
≥ 12000	47.5	55.2	61.1	61.1	69.5	71.0	72.7	73.3	73.7	74.3	74.3	74.3	74.3	74.6	74.7	74.9
≥ 10000	49.6	57.5	63.8	63.8	72.6	74.1	75.8	76.4	76.8	77.4	77.4	77.4	77.4	77.7	77.8	78.0
≥ 9000	50.1	58.0	64.3	64.3	73.1	74.6	76.3	76.9	77.3	77.9	77.9	77.9	77.9	78.1	78.3	78.5
≥ 8000	51.5	59.6	67.0	67.0	75.9	77.4	79.3	79.9	80.2	80.9	80.9	80.9	80.9	81.1	81.2	81.5
≥ 7000	52.5	60.6	68.0	68.0	76.9	78.4	80.2	80.9	81.2	81.9	81.9	81.9	81.9	82.1	82.2	82.5
≥ 6000	53.3	61.1	68.5	68.5	77.4	78.9	80.7	81.4	81.7	82.3	82.3	82.3	82.3	82.6	82.7	83.0
≥ 5000	53.6	61.7	69.1	69.1	78.3	79.8	81.6	82.3	82.7	83.3	83.3	83.3	83.3	83.6	83.7	84.0
≥ 4500	54.4	63.0	70.4	70.4	79.5	81.0	82.8	83.6	84.0	84.6	84.6	84.6	84.6	84.8	84.9	85.2
≥ 4000	57.4	65.9	73.8	73.8	83.0	84.4	86.3	87.2	87.5	88.1	88.1	88.1	88.1	88.4	88.5	88.8
≥ 3500	58.9	67.8	75.7	75.7	84.8	86.3	88.1	89.0	89.4	90.0	90.0	90.0	90.0	90.2	90.4	90.6
≥ 3000	62.1	71.1	79.1	79.1	88.9	90.5	92.3	93.3	93.7	94.3	94.4	94.6	94.6	94.9	95.1	95.3
≥ 2500	62.8	71.9	79.9	79.9	89.9	91.6	93.5	94.4	94.8	95.6	95.7	95.8	95.8	96.2	96.3	96.5
≥ 2000	63.3	72.3	80.6	80.6	91.1	93.0	94.8	96.0	96.4	97.2	97.3	97.4	97.4	97.8	97.9	98.1
≥ 1800	63.3	72.3	80.6	80.6	91.1	93.0	94.8	96.0	96.4	97.2	97.3	97.4	97.4	97.8	97.9	98.1
≥ 1500	63.5	72.5	80.7	80.7	91.2	93.1	94.9	96.2	96.5	97.3	97.4	97.5	97.5	97.9	98.0	98.3
≥ 1200	63.6	72.6	80.9	80.9	91.5	93.3	95.3	96.5	96.9	97.7	97.8	97.9	97.9	98.3	98.4	98.6
≥ 1000	63.6	72.6	80.9	80.9	91.5	93.3	95.3	96.5	96.9	97.7	97.8	97.9	97.9	98.3	98.4	98.6
≥ 900	63.6	72.6	81.0	81.0	91.6	93.5	95.4	96.7	97.0	97.8	97.9	98.0	98.0	98.4	98.5	98.8
≥ 800	63.6	72.6	81.0	81.0	91.6	93.5	95.4	96.7	97.0	97.8	97.9	98.0	98.0	98.4	98.5	98.8
≥ 700	63.6	72.6	81.0	81.0	91.6	93.5	95.4	96.7	97.0	97.8	97.9	98.0	98.0	98.4	98.5	98.8
≥ 600	63.6	72.6	81.0	81.0	91.6	93.5	95.4	96.7	97.0	97.8	97.9	98.0	98.0	98.4	98.5	98.8
≥ 500	63.6	72.6	81.0	81.0	91.6	93.5	95.4	96.7	97.0	97.8	97.9	98.0	98.0	98.4	98.5	98.8
≥ 400	63.6	72.6	81.0	81.0	91.6	93.5	95.4	96.7	97.0	97.8	97.9	98.0	98.0	98.4	98.5	98.8
≥ 300	63.6	72.6	81.0	81.0	91.6	93.5	95.4	96.7	97.0	97.8	97.9	98.0	98.0	98.4	98.5	98.8
≥ 200	63.6	72.6	81.0	81.0	91.6	93.5	95.4	96.7	97.0	97.8	97.9	98.0	98.0	98.4	98.5	98.8
≥ 100	63.6	72.6	81.0	81.0	91.6	93.5	95.4	96.7	97.0	97.8	97.9	98.0	98.0	98.4	98.5	98.8
≥ 0	63.6	72.6	81.0	81.0	91.6	93.5	95.4	96.7	97.0	97.8	97.9	98.0	98.0	98.4	98.5	98.8

TOTAL NUMBER OF OBSERVATIONS 810

GLOBAL CLIMATOLOGY BRANCH  
ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4112  
STATION

USAN AB KO

STATION NAME

73-81

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING - FEET -	VISIBILITY - STATUTE MILES															
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.0	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO CEILING	43.3	44.8	48.6	48.6	53.8	54.4	56.1	57.5	57.8	58.5	59.7	59.1	59.5	59.6	59.9	60.9
≥ 20000	43.3	48.6	53.1	53.1	50.5	60.3	62.3	63.9	64.2	65.2	65.6	65.8	66.2	66.3	66.6	67.7
≥ 18000	43.6	48.9	53.4	53.4	59.9	60.7	62.7	64.3	64.6	65.6	66.0	66.2	66.6	66.7	67.0	68.1
≥ 16000	43.7	49.0	53.5	53.5	60.0	60.8	62.8	64.3	64.7	65.7	66.1	66.3	66.7	66.8	67.1	68.2
≥ 14000	44.1	49.5	54.0	54.0	60.5	61.4	63.4	65.0	65.3	66.3	66.8	67.0	67.3	67.4	67.7	68.8
≥ 12000	44.3	50.3	54.9	54.9	61.7	62.5	64.6	66.2	66.5	67.5	68.0	68.2	68.5	68.7	69.0	70.1
≥ 10000	46.4	52.2	57.3	57.2	64.1	65.0	67.2	68.8	69.2	70.3	70.8	71.0	71.4	71.5	71.9	73.0
≥ 9000	46.4	52.8	57.6	57.6	64.8	65.7	67.9	69.6	69.9	71.0	71.5	71.7	72.1	72.3	72.6	73.7
≥ 8000	48.9	55.2	60.4	60.4	68.0	69.0	71.4	73.1	73.4	74.5	75.1	75.3	75.7	75.8	76.1	77.4
≥ 7000	50.1	56.5	61.7	61.7	69.4	70.5	72.8	74.6	74.9	76.0	76.5	76.7	77.1	77.3	77.6	78.9
≥ 6000	50.6	57.0	62.3	62.3	70.1	71.1	73.5	75.2	75.6	76.6	77.2	77.4	77.8	77.9	78.3	79.5
≥ 5000	51.4	58.0	63.4	63.4	71.3	72.4	74.8	76.6	76.9	78.0	78.5	78.7	79.1	79.3	79.6	80.9
≥ 4500	52.1	58.9	64.3	64.3	72.2	73.3	75.7	77.5	77.8	78.9	79.5	79.7	80.1	80.2	80.6	81.8
≥ 4000	56.2	63.4	69.0	69.0	77.5	78.6	81.0	82.9	83.3	84.4	85.0	85.2	85.6	85.8	86.1	87.4
≥ 3500	58.1	65.6	71.4	71.4	80.1	81.2	83.7	85.6	86.1	87.3	87.8	88.1	88.5	88.6	89.0	90.2
≥ 3000	60.8	68.7	74.9	74.9	84.4	85.7	88.4	90.6	91.0	92.3	92.9	93.2	93.7	93.8	94.2	95.5
≥ 2500	61.1	69.1	75.4	75.4	85.0	86.3	89.1	91.3	91.8	93.1	93.7	94.0	94.5	94.6	95.0	96.3
≥ 2000	61.5	69.5	76.0	76.0	85.9	87.2	90.0	92.3	92.8	94.2	94.8	95.1	95.6	95.7	96.1	97.3
≥ 1800	61.6	69.6	76.1	76.0	85.9	87.2	90.1	92.3	92.9	94.2	94.8	95.1	95.6	95.7	96.1	97.4
≥ 1500	61.7	69.7	76.2	76.2	86.1	87.4	90.3	92.6	93.1	94.5	95.2	95.4	95.9	96.1	96.4	97.7
≥ 1200	61.8	69.8	76.3	76.3	86.4	87.7	90.5	92.9	93.4	94.8	95.5	95.7	96.2	96.4	96.8	98.0
≥ 1000	61.8	69.8	76.4	76.4	86.5	87.8	90.7	93.0	93.6	95.0	95.7	95.9	96.4	96.6	97.0	98.2
≥ 900	61.8	69.8	76.4	76.4	86.5	87.8	90.7	93.0	93.6	95.0	95.7	95.9	96.4	96.6	97.0	98.3
≥ 800	61.8	69.8	76.4	76.4	86.5	87.8	90.7	93.0	93.6	95.0	95.7	95.9	96.4	96.6	97.0	98.3
≥ 700	61.8	69.8	76.4	76.4	86.5	87.8	90.7	93.1	93.6	95.0	95.7	96.0	96.5	96.7	97.1	98.3
≥ 600	61.8	69.8	76.4	76.4	86.5	87.8	90.7	93.1	93.7	95.1	95.8	96.1	96.6	96.8	97.2	98.4
≥ 500	61.8	69.9	76.5	76.5	86.6	87.9	90.8	93.2	93.8	95.2	95.9	96.2	96.7	96.9	97.3	98.6
≥ 400	61.8	69.9	76.5	76.5	86.6	87.9	90.8	93.2	93.8	95.3	96.0	96.3	96.8	96.9	97.3	98.8
≥ 300	61.8	69.9	76.5	76.5	86.6	87.9	90.8	93.2	93.8	95.3	96.0	96.3	96.8	97.0	97.4	98.9
≥ 200	61.8	69.9	76.5	76.5	86.6	87.9	90.8	93.3	93.8	95.3	96.0	96.3	96.8	97.0	97.4	99.2
≥ 100	61.8	69.9	76.5	76.5	86.6	87.9	90.8	93.3	93.8	95.3	96.0	96.3	96.8	97.0	97.4	99.7
≥ 0	61.8	69.9	76.5	76.5	86.6	87.9	90.8	93.3	93.9	95.3	96.0	96.3	96.9	97.0	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS 6465

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



ALPHEA CLIMATOLOGY BRANCH  
USAF ETAC  
AFH WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

41120  
STATION

OSAN AB KC  
STATION NAME

73-81  
YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ .	≥ 0
NO CEILING	35.7	42.2	46.5	46.5	58.2	59.2	63.9	62.1	63.3	64.6	65.1	65.1	65.5	65.5	65.9	67.0
≥ 20000	36.7	41.2	47.6	47.6	59.5	60.8	62.5	63.7	64.9	66.2	66.7	66.7	67.0	67.0	67.5	68.6
≥ 18000	36.3	41.6	48.0	48.0	60.0	61.3	62.9	64.1	65.3	66.7	67.1	67.1	67.5	67.5	68.0	69.1
≥ 16000	36.3	41.6	48.0	48.0	60.0	61.3	62.9	64.1	65.3	66.7	67.1	67.1	67.5	67.5	68.0	69.1
≥ 14000	36.8	42.1	48.4	48.4	61.7	62.0	63.7	64.9	66.1	67.4	67.9	67.9	68.2	68.2	68.7	69.8
≥ 12000	37.1	42.3	48.7	48.7	61.9	62.2	63.9	65.1	66.3	67.6	68.1	68.1	68.5	68.5	68.9	70.0
≥ 10000	38.4	43.9	50.5	50.5	63.3	64.7	66.4	67.6	68.8	70.1	70.6	70.6	71.0	71.0	71.5	72.5
≥ 9000	38.4	43.9	50.5	50.5	63.3	64.7	66.4	67.6	68.8	70.1	70.6	70.6	71.0	71.0	71.5	72.5
≥ 8000	38.6	44.2	51.2	51.2	65.0	66.4	68.2	69.4	70.7	72.1	72.5	72.5	72.9	72.9	73.4	74.5
≥ 7000	38.7	44.4	51.3	51.3	65.1	66.5	68.3	69.5	70.9	72.2	72.7	72.7	73.0	73.0	73.5	74.6
≥ 6000	38.7	44.8	51.8	51.8	65.6	67.0	68.8	70.0	71.3	72.8	73.3	73.3	73.6	73.6	74.1	75.2
≥ 5000	40.3	46.5	53.6	53.6	67.5	68.9	70.7	71.9	73.3	74.7	75.2	75.2	75.5	75.5	76.0	77.1
≥ 4500	40.6	46.9	54.0	54.0	69.2	69.8	71.6	72.8	74.1	75.5	76.0	76.0	76.4	76.4	76.9	77.9
≥ 4000	45.9	52.8	60.6	60.6	75.4	77.1	78.9	80.3	81.9	83.3	84.1	84.2	84.5	84.5	85.0	86.1
≥ 3500	48.7	55.0	63.2	63.2	78.5	80.3	82.4	83.9	85.5	87.3	88.0	88.1	88.5	88.5	89.1	90.2
≥ 3000	51.0	58.4	67.3	67.3	83.5	85.5	87.6	89.3	91.1	92.9	93.6	93.8	94.1	94.1	94.7	95.8
≥ 2500	51.0	58.4	67.4	67.4	83.6	85.6	88.0	89.8	91.6	93.4	94.1	94.2	94.6	94.6	95.2	96.3
≥ 2000	51.0	58.5	67.5	67.5	83.8	85.9	88.2	90.0	92.0	94.1	95.1	95.2	95.6	95.6	96.2	97.2
≥ 1800	51.1	58.6	67.6	67.6	83.9	86.0	88.4	90.2	92.1	94.2	95.2	95.4	95.8	95.8	96.4	97.5
≥ 1500	51.1	58.6	67.6	67.6	83.9	86.0	88.4	90.4	92.4	94.6	95.7	95.9	96.4	96.4	97.0	98.1
≥ 1200	51.1	58.6	67.6	67.6	83.9	86.0	88.4	90.4	92.4	94.6	95.7	95.9	96.4	96.4	97.0	98.1
≥ 1000	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.5	92.6	95.1	96.2	96.4	96.9	96.9	97.5	98.6
≥ 900	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.5	92.6	95.1	96.2	96.4	96.9	96.9	97.5	98.6
≥ 800	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.5	92.6	95.2	96.3	96.5	97.0	97.0	97.6	98.7
≥ 700	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.5	92.6	95.2	96.3	96.5	97.0	97.0	97.6	98.7
≥ 600	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.5	92.6	95.2	96.3	96.5	97.0	97.0	97.6	98.7
≥ 500	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.6	92.7	95.3	96.4	96.6	97.1	97.1	97.7	98.8
≥ 400	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.6	92.7	95.4	96.5	96.9	97.4	97.4	98.0	99.0
≥ 300	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.8	92.8	95.6	96.6	97.0	97.5	97.5	98.1	99.2
≥ 200	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.8	92.8	95.6	96.6	97.0	97.5	97.5	98.1	99.3
≥ 100	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.8	92.8	95.6	96.6	97.0	97.5	97.5	98.1	99.5
≥ 0	51.1	58.6	67.6	67.6	83.9	86.0	88.5	90.8	92.8	95.6	96.6	97.0	97.5	97.5	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 834

GLOBAL CLIMATOLOGY BRANCH  
CEMETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

47102 USAN AB KO

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2300-0500

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥.75	≥.5	≥.25	≥.16	≥.1	≥0
NO CEILING	31.8	36.7	42.2	42.2	52.3	53.4	55.4	57.3	57.8	58.5	58.8	58.9	59.8	60.0	60.3	62.8
≥ 20000	33.6	38.7	44.4	44.4	54.7	55.8	57.9	60.1	60.6	61.4	61.6	61.8	62.7	62.8	63.2	65.9
≥ 18000	34.2	39.3	45.0	45.0	55.3	56.4	58.5	60.7	61.2	62.0	62.2	62.4	63.3	63.4	63.8	66.5
≥ 16000	34.2	39.3	45.0	45.0	55.3	56.4	58.5	60.7	61.2	62.0	62.2	62.4	63.3	63.4	63.8	66.5
≥ 14000	34.2	39.3	45.0	45.0	55.3	56.4	58.5	60.7	61.2	62.0	62.2	62.4	63.3	63.4	63.8	66.5
≥ 12000	34.5	39.7	45.3	45.3	55.9	57.0	59.1	61.3	61.8	62.6	62.8	62.9	63.9	64.0	64.4	67.1
≥ 10000	36.1	41.5	47.2	47.2	58.2	59.5	61.6	63.8	64.3	65.2	65.5	65.6	66.5	66.7	67.0	69.8
≥ 9000	36.2	41.6	47.5	47.5	58.5	59.8	62.0	64.3	64.7	65.7	65.9	66.1	67.0	67.1	67.5	70.3
≥ 8000	36.9	42.3	48.2	48.2	60.2	61.5	63.9	66.4	67.1	68.1	68.3	68.5	69.4	69.5	69.9	72.7
≥ 7000	36.9	42.3	48.2	48.2	60.2	61.5	63.9	66.4	67.1	68.1	68.3	68.5	69.4	69.5	69.9	72.7
≥ 6000	37.3	42.7	48.6	48.6	60.6	61.9	64.3	66.8	67.5	68.5	68.7	68.8	69.8	69.9	70.3	73.0
≥ 5000	38.0	43.9	50.0	50.0	62.0	63.3	65.8	68.3	69.1	70.0	70.3	70.4	71.3	71.5	71.8	74.6
≥ 4500	38.2	44.1	50.5	50.5	62.8	64.1	66.7	69.2	69.9	70.9	71.1	71.2	72.2	72.3	72.7	75.4
≥ 4000	42.8	48.8	56.0	56.0	68.8	70.3	72.8	75.7	76.4	77.5	77.7	77.9	79.1	79.3	79.6	82.4
≥ 3500	45.0	51.0	58.9	58.9	72.2	73.6	76.1	79.3	80.1	81.3	81.5	81.8	83.0	83.1	83.5	86.2
≥ 3000	49.5	55.9	64.4	64.4	78.7	80.1	83.1	86.6	87.4	88.8	89.2	89.6	90.8	90.9	91.2	94.1
≥ 2500	49.5	55.9	64.6	64.6	79.0	80.5	83.5	87.2	88.0	89.4	89.8	90.2	91.4	91.5	91.8	94.7
≥ 2000	49.6	56.0	65.2	65.2	79.7	81.2	84.2	87.9	88.7	90.3	90.8	91.1	92.3	92.4	92.8	95.7
≥ 1800	49.8	56.1	65.3	65.3	80.0	81.4	84.4	88.1	89.0	90.5	91.0	91.4	92.6	92.7	93.0	95.9
≥ 1500	49.9	56.2	65.5	65.5	80.5	81.9	84.9	88.6	89.4	91.0	91.5	91.8	93.0	93.2	93.5	96.4
≥ 1200	50.0	56.4	65.6	65.6	80.6	82.1	85.1	88.8	89.7	91.6	92.1	92.4	93.6	93.8	94.1	97.0
≥ 1000	50.0	56.4	65.6	65.6	80.7	82.3	85.3	89.1	89.9	91.8	92.4	92.8	94.0	94.1	94.5	97.4
≥ 900	50.0	56.4	65.6	65.6	80.7	82.3	85.3	89.1	89.9	91.8	92.4	92.8	94.0	94.1	94.5	97.4
≥ 800	50.2	56.6	65.8	65.8	80.9	82.5	85.5	89.3	90.3	92.3	93.0	93.4	94.6	94.7	95.1	98.0
≥ 700	50.5	56.8	66.1	66.1	81.2	82.7	85.7	89.6	90.5	92.6	93.3	93.6	94.8	95.0	95.3	98.2
≥ 600	50.5	56.8	66.1	66.1	81.2	82.7	85.7	89.6	90.5	92.6	93.4	93.8	95.0	95.1	95.4	98.3
≥ 500	50.5	56.8	66.1	66.1	81.2	82.7	85.7	89.6	90.5	92.6	93.5	93.9	95.1	95.2	95.6	98.8
≥ 400	50.5	56.8	66.1	66.1	81.2	82.7	85.7	89.6	90.5	92.6	93.5	93.9	95.1	95.2	95.6	98.8
≥ 300	50.5	56.8	66.1	66.1	81.2	82.7	85.7	89.6	90.5	92.7	93.6	94.1	95.4	95.6	95.9	99.3
≥ 200	50.5	56.8	66.1	66.1	81.2	82.7	85.7	89.6	90.5	92.7	93.6	94.1	95.6	95.8	96.2	99.6
≥ 100	50.5	56.8	66.1	66.1	81.2	82.7	85.7	89.6	90.5	92.7	93.6	94.1	95.6	95.8	96.2	99.9
≥ 0	50.5	56.8	66.1	66.1	81.2	82.7	85.7	89.6	90.5	92.7	93.6	94.1	95.6	95.8	96.2	100.0

TOTAL NUMBER OF OBSERVATIONS 834

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4 112  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

06J0-0800  
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	25.1	28.3	35.1	35.1	46.4	47.7	50.8	54.2	55.3	56.6	57.5	57.8	58.5	58.5	58.7	60.2
≥ 20000	25.9	29.3	36.2	36.2	47.9	49.2	52.7	56.4	57.5	58.8	59.6	60.0	60.7	60.7	61.3	62.8
≥ 18000	26.4	29.7	36.7	36.7	48.4	49.7	53.2	57.0	58.1	59.4	60.2	60.6	61.3	61.3	61.9	63.4
≥ 16000	26.4	29.7	36.7	36.7	48.4	49.7	53.2	57.0	58.1	59.4	60.2	60.6	61.3	61.3	61.9	63.4
≥ 14000	26.4	29.7	36.7	36.7	48.4	49.7	53.2	57.0	58.1	59.4	60.2	60.6	61.3	61.3	61.9	63.4
≥ 12000	26.4	29.7	36.7	36.7	48.4	49.8	53.3	57.1	58.3	59.6	60.5	60.8	61.5	61.5	62.1	63.7
≥ 10000	27.5	30.8	37.8	37.8	49.6	51.0	54.6	58.7	59.9	61.3	62.1	62.5	63.2	63.2	63.8	65.4
≥ 9000	27.8	31.3	38.2	38.2	50.1	51.5	55.1	59.1	60.3	61.8	62.6	63.3	63.7	63.7	64.3	65.8
≥ 8000	28.4	32.1	39.4	39.4	51.4	53.0	56.9	61.2	62.5	64.2	65.0	65.4	66.1	66.1	66.7	68.2
≥ 7000	28.6	32.3	39.5	39.5	51.7	53.4	57.3	61.6	63.0	64.6	65.5	65.8	66.5	66.5	67.1	68.7
≥ 6000	28.6	32.3	39.5	39.5	52.0	53.6	57.6	61.9	63.2	64.9	65.7	66.1	66.8	66.8	67.4	68.9
≥ 5000	29.2	33.0	40.4	40.4	52.9	54.7	58.9	63.3	64.6	66.3	67.1	67.5	68.2	68.2	68.8	70.4
≥ 4500	29.4	33.2	40.9	40.9	53.5	55.3	59.5	63.9	65.2	66.9	67.7	68.1	68.8	68.8	69.4	71.0
≥ 4000	33.2	38.4	46.7	46.7	60.1	62.2	66.7	71.9	73.2	74.9	75.9	76.2	76.9	76.9	77.8	79.5
≥ 3500	35.7	40.4	49.2	49.2	63.0	65.2	69.8	75.3	76.7	78.4	79.3	79.7	80.4	80.4	81.2	83.0
≥ 3000	38.4	44.3	54.4	54.4	69.3	72.0	76.7	82.6	84.0	85.8	86.9	87.5	88.3	88.3	89.4	91.5
≥ 2500	38.4	44.3	55.0	55.0	70.3	73.0	77.7	83.5	84.9	86.7	87.8	88.5	89.4	89.5	90.7	93.0
≥ 2000	38.6	44.6	55.4	55.4	71.0	73.7	78.4	84.3	85.9	87.7	88.8	89.6	90.4	90.6	91.8	94.1
≥ 1800	38.6	44.6	55.4	55.4	71.1	73.8	78.5	84.5	86.0	87.8	88.9	89.7	90.6	90.7	91.9	94.3
≥ 1500	38.6	44.6	55.4	55.4	71.1	73.8	78.6	84.6	86.4	88.2	89.2	90.1	90.9	91.0	92.2	94.6
≥ 1200	39.1	45.0	55.9	55.9	71.6	74.3	79.1	85.3	86.9	88.6	89.8	90.7	91.6	91.8	93.1	95.5
≥ 1000	39.1	45.2	56.0	56.0	71.8	74.6	79.5	85.7	87.5	89.4	90.6	91.6	92.6	92.7	94.3	96.7
≥ 900	39.1	45.2	56.0	56.0	71.8	74.6	79.5	85.7	87.5	89.4	90.6	91.6	92.6	92.7	94.3	96.7
≥ 800	39.1	45.2	56.0	56.0	71.8	74.6	79.5	85.7	87.5	89.4	90.6	91.6	92.6	92.7	94.3	96.8
≥ 700	39.2	45.3	56.2	56.2	72.0	74.8	79.7	85.9	87.7	89.6	90.8	91.9	92.8	93.0	94.5	97.0
≥ 600	39.2	45.3	56.2	56.2	72.0	74.8	79.7	85.9	87.7	89.6	90.8	91.9	92.8	93.0	94.5	97.0
≥ 500	39.2	45.3	56.2	56.2	72.0	74.8	79.7	85.9	87.7	89.6	90.8	91.9	92.8	93.0	94.5	97.1
≥ 400	39.2	45.3	56.2	56.2	72.0	74.8	79.7	85.9	87.7	89.6	90.8	91.9	92.8	93.0	94.5	97.1
≥ 300	39.2	45.3	56.2	56.2	72.0	74.8	79.7	85.9	87.7	89.6	90.8	91.9	92.8	93.1	94.7	97.7
≥ 200	39.2	45.3	56.2	56.2	72.0	74.8	79.7	85.9	87.7	89.6	90.9	92.0	93.0	93.2	95.1	99.2
≥ 100	39.2	45.3	56.2	56.2	72.0	74.8	79.7	85.9	87.7	89.6	91.0	92.1	93.2	93.5	95.5	99.9
≥ 0	39.2	45.3	56.2	56.2	72.0	74.8	79.7	85.9	87.7	89.6	91.0	92.1	93.2	93.5	95.5	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
AF/STAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

471.21  
STATION

USAN AB KO

STATION NAME

73-81

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS U.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥1/16	≥.	≥0
NO CEILING	25.3	24.8	29.9	29.9	41.1	42.8	48.4	55.6	56.8	58.1	58.5	58.5	59.0	59.1	59.3	59.8
≥ 20000	21.4	26.2	31.9	31.9	44.3	46.3	52.6	60.4	61.8	63.3	63.6	63.9	64.5	64.6	64.8	65.8
IV 18000	21.8	26.8	32.5	32.5	45.1	47.1	53.5	61.2	62.8	64.2	64.6	64.8	65.4	65.6	65.8	66.7
IV 16000	21.3	26.8	32.5	32.5	45.1	47.1	53.5	61.2	62.8	64.2	64.6	64.8	65.4	65.6	65.8	66.7
IV 14000	22.7	27.0	32.8	32.8	45.3	47.4	53.7	61.5	63.0	64.5	64.8	65.1	65.7	65.8	66.0	67.0
IV 12000	22.0	27.0	32.8	32.8	45.3	47.4	53.7	61.5	63.0	64.5	64.8	65.1	65.7	65.8	66.0	67.0
IV 10000	22.3	27.8	33.5	33.5	46.3	48.3	54.8	62.6	64.1	65.6	65.9	66.1	66.7	66.9	67.1	68.1
IV 9000	22.7	28.0	33.7	33.7	46.5	48.6	55.0	62.8	64.4	65.8	66.1	66.4	67.0	67.1	67.3	68.3
IV 8000	23.6	29.2	35.6	35.6	49.3	51.3	57.8	65.8	67.3	68.8	69.1	69.4	70.0	70.1	70.3	71.3
IV 7000	24.2	29.8	36.6	36.6	50.4	52.6	59.3	67.3	68.9	70.3	70.7	70.9	71.7	71.8	72.0	73.0
IV 6000	24.4	30.3	37.3	37.3	51.1	53.3	60.0	68.1	69.6	71.1	71.4	71.7	72.4	72.5	72.7	73.7
IV 5000	24.4	30.4	37.4	37.4	51.2	53.5	60.2	68.2	69.7	71.2	71.8	72.0	72.7	72.8	73.1	74.0
IV 4500	24.5	31.0	38.0	38.0	52.2	54.4	61.1	69.1	70.9	72.4	73.1	73.3	74.0	74.2	74.4	75.4
IV 4000	25.2	32.8	40.4	40.4	55.6	58.1	65.1	73.4	75.4	76.8	77.5	77.9	78.7	78.8	79.1	80.0
IV 3500	26.0	33.6	41.9	41.9	58.1	60.9	68.2	76.9	79.3	80.9	81.6	81.9	82.8	82.9	83.1	84.1
IV 3000	27.5	35.4	44.1	44.1	61.5	64.6	72.7	82.2	84.8	86.6	87.9	88.3	89.2	89.5	89.7	90.8
IV 2500	27.9	35.8	45.0	45.0	62.7	65.8	73.9	83.4	86.0	87.8	89.2	89.6	90.7	90.9	91.1	92.2
IV 2000	28.2	36.2	45.7	45.7	63.8	66.9	75.0	84.7	87.3	89.4	91.3	91.6	92.7	93.1	93.3	94.4
IV 1800	28.2	36.2	45.7	45.7	63.8	66.9	75.0	84.7	87.3	89.4	91.3	91.6	92.7	93.1	93.3	94.4
IV 1500	28.6	36.6	46.1	46.1	64.5	67.7	75.8	85.8	88.5	90.6	92.6	92.9	94.0	94.4	94.6	95.7
IV 1200	28.7	36.7	46.2	46.2	64.6	67.8	76.0	85.9	88.6	90.8	92.9	93.3	94.4	94.7	95.1	96.2
IV 1000	28.7	36.7	46.2	46.2	64.7	67.9	76.1	86.0	88.9	91.1	93.3	93.8	94.9	95.2	95.6	96.7
IV 900	28.8	37.0	46.4	46.4	65.2	68.4	76.6	86.5	89.4	91.6	93.8	94.3	95.3	95.7	96.1	97.1
IV 800	28.8	37.0	46.4	46.4	65.2	68.4	76.6	86.6	89.5	91.7	93.9	94.4	95.6	95.9	96.3	97.4
IV 700	28.8	37.0	46.4	46.4	65.2	68.4	76.7	86.7	89.7	92.0	94.1	94.6	95.8	96.2	96.5	97.6
IV 600	28.8	37.0	46.4	46.4	65.2	68.4	76.7	86.8	89.8	92.1	94.4	94.9	96.1	96.4	96.8	97.8
IV 500	28.8	37.0	46.4	46.4	65.2	68.4	76.8	87.1	90.1	92.3	94.7	95.2	96.4	96.8	97.2	98.4
IV 400	28.8	37.0	46.4	46.4	65.2	68.4	76.8	87.1	90.1	92.3	94.7	95.2	96.4	96.8	97.2	98.4
IV 300	28.8	37.0	46.4	46.4	65.2	68.4	76.8	87.1	90.1	92.3	94.7	95.2	96.4	96.8	97.2	98.4
IV 200	28.8	37.0	46.4	46.4	65.2	68.4	76.8	87.1	90.1	92.3	94.7	95.2	96.4	96.8	97.2	99.9
IV 100	28.8	37.0	46.4	46.4	65.2	68.4	76.8	87.1	90.1	92.3	94.7	95.2	96.4	96.8	97.2	100.0
IV 0	28.8	37.0	46.4	46.4	65.2	68.4	76.8	87.1	90.1	92.3	94.7	95.2	96.4	96.8	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS

836

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

4638

GLOBAL CLIMATOLOGY BRANCH  
AF/ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4712  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS LT ST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥5/16	≥¼	≥0
NO CEILING	47.5	52.8	55.5	55.5	61.1	62.1	62.8	63.4	63.5	63.8	63.9	63.9	64.0	64.0	64.0	64.0
≥ 20000	55.8	56.9	60.8	60.8	67.5	68.7	69.6	70.2	70.3	70.6	70.7	70.7	70.8	70.8	70.8	70.9
≥ 18000	51.3	57.4	61.2	61.2	68.1	69.3	70.2	70.8	70.9	71.2	71.3	71.3	71.4	71.4	71.4	71.5
≥ 16000	51.3	57.4	61.2	61.2	68.1	69.3	70.2	70.8	70.9	71.2	71.3	71.3	71.4	71.4	71.4	71.5
≥ 14000	51.3	57.7	61.5	61.5	68.3	69.5	70.5	71.1	71.2	71.4	71.5	71.5	71.7	71.7	71.7	71.8
≥ 12000	51.6	58.0	61.8	61.8	68.7	69.9	70.9	71.5	71.7	71.9	72.0	72.0	72.1	72.1	72.1	72.2
≥ 10000	52.4	59.1	62.9	62.9	69.7	70.9	72.0	72.7	72.8	73.1	73.2	73.2	73.3	73.3	73.3	73.4
≥ 9000	52.5	59.2	63.0	63.0	69.9	71.1	72.1	72.8	73.0	73.2	73.3	73.3	73.4	73.4	73.4	73.6
≥ 8000	54.7	61.5	65.8	65.8	73.3	74.5	75.6	76.3	76.4	76.7	76.8	76.8	76.9	76.9	76.9	77.0
≥ 7000	55.6	62.7	67.1	67.1	74.8	76.1	77.2	77.9	78.0	78.2	78.3	78.3	78.5	78.5	78.5	78.6
≥ 6000	55.6	62.7	67.1	67.1	74.8	76.1	77.2	77.9	78.0	78.2	78.3	78.3	78.5	78.5	78.5	78.6
≥ 5000	56.0	63.0	67.5	67.5	75.5	76.8	77.9	78.6	78.7	78.9	79.1	79.1	79.2	79.2	79.2	79.3
≥ 4500	56.5	64.0	68.4	68.4	76.4	78.0	79.1	79.9	80.0	80.3	80.4	80.4	80.6	80.6	80.6	80.7
≥ 4000	58.6	66.9	71.9	71.9	80.4	82.2	83.5	84.3	84.4	84.7	84.8	84.8	85.0	85.0	85.0	85.2
≥ 3500	61.0	69.7	75.1	75.1	83.9	85.6	87.2	88.0	88.2	88.4	88.5	88.5	88.8	88.8	88.8	88.9
≥ 3000	64.4	73.6	80.0	80.0	89.6	91.5	93.1	94.0	94.1	94.5	94.6	94.6	95.0	95.0	95.1	95.2
≥ 2500	64.6	73.8	80.4	80.4	90.0	91.9	93.5	94.5	94.6	95.1	95.2	95.2	95.6	95.6	95.7	95.8
≥ 2000	64.7	73.9	80.5	80.5	90.3	92.2	93.9	94.9	95.0	95.6	95.9	95.9	96.3	96.3	96.4	96.5
≥ 1800	65.0	74.2	80.7	80.7	90.6	92.5	94.1	95.1	95.2	95.8	96.2	96.2	96.5	96.5	96.7	96.8
≥ 1500	65.2	74.4	81.2	81.2	91.3	93.2	94.9	95.9	96.1	96.7	97.1	97.1	97.5	97.5	97.6	97.7
≥ 1200	65.3	74.5	81.3	81.3	91.5	93.4	95.2	96.7	96.8	97.4	97.8	97.8	98.2	98.2	98.3	98.4
≥ 1000	65.3	74.5	81.3	81.3	91.7	93.7	95.6	97.0	97.1	97.7	98.2	98.2	98.7	98.7	98.9	99.0
≥ 900	65.3	74.5	81.3	81.3	91.7	93.7	95.6	97.0	97.1	97.7	98.2	98.2	98.7	98.7	98.9	99.0
≥ 800	65.3	74.5	81.3	81.3	91.7	93.7	95.6	97.1	97.2	97.8	98.4	98.4	98.9	98.9	99.2	99.3
≥ 700	65.3	74.5	81.3	81.3	91.7	93.7	95.7	97.2	97.4	98.0	98.6	98.6	99.0	99.0	99.3	99.4
≥ 600	65.3	74.5	81.3	81.3	91.7	93.7	95.7	97.2	97.4	98.0	98.6	98.6	99.0	99.0	99.3	99.4
≥ 500	65.3	74.5	81.3	81.3	91.7	93.7	95.7	97.2	97.4	98.0	98.6	98.8	99.3	99.3	99.5	99.6
≥ 400	65.3	74.5	81.3	81.3	91.7	93.7	95.7	97.2	97.5	98.1	98.7	98.9	99.4	99.4	99.6	99.8
≥ 300	65.3	74.5	81.3	81.3	91.7	93.7	95.7	97.2	97.5	98.1	98.7	99.0	99.5	99.5	99.8	99.9
≥ 200	65.3	74.5	81.3	81.3	91.7	93.7	95.7	97.2	97.5	98.1	98.7	99.0	99.5	99.5	99.8	100.0
≥ 100	65.3	74.5	81.3	81.3	91.7	93.7	95.7	97.2	97.5	98.1	98.7	99.0	99.5	99.5	99.8	100.0
≥ 0	65.3	74.5	81.3	81.3	91.7	93.7	95.7	97.2	97.5	98.1	98.7	99.0	99.5	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 836

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4712  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (LT)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	¾	≥0
NO CEILING	52.3	56.3	59.9	59.9	61.2	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 20000	56.5	61.9	66.5	66.5	68.0	68.1	68.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 18000	57.7	62.4	66.9	66.9	68.7	68.9	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 16000	57.7	62.4	66.9	66.9	68.7	68.9	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 14000	57.2	62.6	67.2	67.2	69.0	69.1	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 12000	57.6	63.0	67.7	67.7	69.5	69.6	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 10000	59.3	64.8	69.6	69.6	71.4	71.5	72.1	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 9000	59.3	64.8	69.6	69.6	71.4	71.5	72.1	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 8000	60.4	66.0	70.9	70.9	72.8	72.9	73.5	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 7000	61.4	67.3	72.2	72.2	74.1	74.3	74.9	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 6000	61.6	67.7	72.6	72.6	74.5	74.6	75.2	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 5000	62.4	68.6	73.5	73.5	75.4	75.6	76.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 4500	62.4	68.6	73.5	73.5	75.4	75.6	76.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 4000	66.1	72.7	77.8	77.8	80.1	80.4	81.1	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.7
≥ 3500	68.7	76.0	81.3	81.3	83.7	84.1	85.4	85.9	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000	74.0	81.6	87.1	87.1	90.3	90.7	92.1	92.8	92.8	92.8	93.1	93.1	93.2	93.2	93.2	93.2
≥ 2500	75.0	82.8	88.5	88.5	91.7	92.1	93.8	94.6	94.6	94.6	94.9	94.9	95.0	95.0	95.0	95.0
≥ 2000	75.3	83.4	89.5	89.5	93.1	93.4	95.1	95.9	95.9	96.2	96.5	96.5	96.6	96.6	96.6	96.6
≥ 1800	75.3	83.4	89.5	89.5	93.1	93.4	95.1	95.9	95.9	96.2	96.5	96.5	96.6	96.6	96.6	96.6
≥ 1500	75.8	84.0	90.3	90.3	94.0	94.4	96.0	97.0	97.0	97.2	97.6	97.6	98.0	98.0	98.0	98.0
≥ 1200	75.8	84.0	90.3	90.3	94.0	94.4	96.0	97.0	97.0	97.2	97.6	97.6	98.0	98.0	98.0	98.0
≥ 1000	75.8	84.1	91.0	91.0	94.9	95.2	96.9	98.0	98.0	98.3	98.7	98.7	99.0	99.0	99.3	99.3
≥ 900	75.8	84.1	91.0	91.0	94.9	95.2	96.9	98.0	98.0	98.3	98.7	98.7	99.0	99.0	99.3	99.3
≥ 800	75.8	84.1	91.1	91.1	95.1	95.4	97.1	98.2	98.2	98.6	98.9	98.9	99.3	99.3	99.5	99.5
≥ 700	75.8	84.1	91.1	91.1	95.1	95.4	97.1	98.2	98.2	98.6	98.9	98.9	99.3	99.3	99.5	99.5
≥ 600	75.8	84.1	91.1	91.1	95.1	95.4	97.1	98.2	98.2	98.6	98.9	98.9	99.3	99.3	99.5	99.5
≥ 500	75.8	84.1	91.1	91.1	95.2	95.7	97.4	98.4	98.4	98.8	99.2	99.2	99.5	99.5	99.8	99.8
≥ 400	75.8	84.1	91.1	91.1	95.2	95.7	97.4	98.4	98.4	98.8	99.3	99.3	99.6	99.6	99.9	99.9
≥ 300	75.8	84.1	91.1	91.1	95.2	95.7	97.4	98.4	98.4	98.8	99.3	99.3	99.6	99.6	100.0	100.0
≥ 200	75.8	84.1	91.1	91.1	95.2	95.7	97.4	98.4	98.4	98.8	99.3	99.3	99.6	99.6	100.0	100.0
≥ 100	75.8	84.1	91.1	91.1	95.2	95.7	97.4	98.4	98.4	98.8	99.3	99.3	99.6	99.6	100.0	100.0
≥ 0	75.8	84.1	91.1	91.1	95.2	95.7	97.4	98.4	98.4	98.8	99.3	99.3	99.6	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 835

CECIL CLIMATOLOGY BRANCH  
METAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4112  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS LST

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ 0
NO CEILING	44.7	52.7	58.8	58.8	63.9	64.6	65.4	66.2	66.3	66.8	67.0	67.0	67.0	67.0	67.1	67.4
≥ 20000	47.1	54.6	62.2	62.2	68.8	68.8	70.0	71.2	71.3	71.8	72.0	72.0	72.0	72.0	72.2	72.4
≥ 18000	47.3	55.0	62.5	62.8	68.8	69.5	70.7	71.9	72.0	72.5	72.8	72.8	72.8	72.8	72.9	73.1
≥ 16000	47.3	55.0	62.8	62.8	68.8	69.5	70.7	71.9	72.0	72.5	72.8	72.8	72.8	72.8	72.9	73.1
≥ 14000	47.8	55.4	63.4	63.4	69.4	70.1	71.3	72.5	72.6	73.1	73.4	73.4	73.4	73.4	73.5	73.7
≥ 12000	48.0	55.7	63.7	63.7	70.0	70.8	72.0	73.2	73.4	73.8	74.1	74.1	74.1	74.1	74.2	74.4
≥ 10000	49.7	57.3	65.5	65.5	72.3	73.1	74.3	75.5	75.6	76.1	76.3	76.3	76.3	76.3	76.5	76.7
≥ 9000	49.9	57.6	65.7	65.7	72.5	73.4	74.6	75.7	75.9	76.3	76.6	76.6	76.6	76.6	76.7	76.9
≥ 8000	50.1	57.7	66.1	66.1	72.9	73.7	74.9	76.2	76.3	76.8	77.3	77.3	77.3	77.3	77.4	77.7
≥ 7000	50.3	57.9	66.7	66.7	73.7	74.6	75.7	77.1	77.2	77.7	78.1	78.1	78.1	78.1	78.3	78.5
≥ 6000	50.3	57.9	66.7	66.7	73.7	74.6	75.7	77.1	77.2	77.7	78.1	78.1	78.1	78.1	78.3	78.5
≥ 5000	50.9	58.7	67.5	67.5	74.6	75.4	76.7	78.0	78.1	78.6	79.1	79.1	79.1	79.1	79.2	79.5
≥ 4500	51.4	59.3	68.1	68.1	75.1	76.0	77.3	78.6	78.7	79.2	79.7	79.7	79.7	79.7	79.8	80.0
≥ 4000	55.0	63.1	72.4	72.4	79.6	80.8	82.2	83.5	83.6	84.1	84.6	84.6	84.6	84.6	84.7	84.9
≥ 3500	58.1	66.5	76.0	76.0	83.5	84.8	86.6	88.1	88.2	88.9	89.4	89.4	89.4	89.4	89.5	89.7
≥ 3000	62.1	70.7	80.6	80.6	88.9	90.2	92.0	93.4	93.5	94.3	94.7	94.7	94.7	94.7	94.9	95.1
≥ 2500	62.7	71.4	82.1	82.1	90.6	92.0	94.0	95.5	95.6	96.3	96.8	96.8	96.8	96.8	96.9	97.1
≥ 2000	62.8	71.6	82.3	82.3	90.8	92.2	94.3	95.8	95.9	96.8	97.4	97.4	97.4	97.4	97.5	97.7
≥ 1800	62.8	71.7	82.4	82.4	90.9	92.4	94.4	95.9	96.1	96.9	97.5	97.5	97.5	97.5	97.6	97.8
≥ 1500	62.8	71.7	82.4	82.4	91.0	92.5	94.5	96.1	96.3	97.3	97.8	97.8	97.8	97.8	98.0	98.3
≥ 1200	62.8	71.7	82.6	82.6	91.4	93.0	95.0	96.5	96.8	97.8	98.4	98.4	98.4	98.4	98.6	98.9
≥ 1000	63.7	71.8	82.7	82.7	91.8	93.3	95.5	97.0	97.3	98.3	98.9	98.9	98.9	98.9	99.0	99.4
≥ 900	63.7	71.8	82.7	82.7	91.8	93.3	95.5	97.0	97.3	98.3	98.9	98.9	98.9	98.9	99.0	99.4
≥ 800	63.7	71.8	82.7	82.7	91.8	93.3	95.5	97.0	97.3	98.3	98.9	98.9	98.9	98.9	99.0	99.4
≥ 700	63.7	71.8	82.7	82.7	91.8	93.3	95.5	97.0	97.3	98.3	98.9	98.9	98.9	98.9	99.0	99.4
≥ 600	63.0	71.8	82.7	82.7	91.9	93.4	95.6	97.1	97.4	98.4	99.0	99.0	99.0	99.0	99.2	99.5
≥ 500	63.7	71.8	82.7	82.7	91.9	93.4	95.6	97.1	97.4	98.4	99.0	99.0	99.0	99.0	99.2	99.5
≥ 400	63.7	71.8	82.7	82.7	91.9	93.4	95.6	97.1	97.4	98.4	99.0	99.0	99.0	99.0	99.2	99.5
≥ 300	63.0	71.8	82.7	82.7	91.9	93.4	95.6	97.1	97.4	98.4	99.2	99.2	99.2	99.2	99.3	99.6
≥ 200	63.0	71.8	82.7	82.7	91.9	93.4	95.6	97.1	97.4	98.4	99.3	99.3	99.3	99.3	99.4	99.8
≥ 100	63.0	71.8	82.7	82.7	91.9	93.4	95.6	97.1	97.4	98.4	99.3	99.3	99.3	99.3	99.4	99.9
≥ 0	63.7	71.8	82.7	82.7	91.9	93.4	95.6	97.1	97.4	98.4	99.3	99.3	99.3	99.3	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 837

GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4 1 2  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS - LT

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	¾	¾	¾	¾	≥1/2	≥0
NO CEILING	39.3	45.5	54.0	54.0	61.4	61.8	63.1	64.8	65.0	65.6	65.7	65.7	65.9	65.9	66.3	67.1
≥ 20000	40.6	47.1	55.6	55.6	64.4	64.9	66.2	68.0	68.2	68.8	68.9	68.9	69.2	69.2	69.5	70.4
≥ 18000	40.6	47.1	55.6	55.6	64.4	64.9	66.2	68.0	68.2	68.8	68.9	68.9	69.2	69.2	69.5	70.4
≥ 16000	40.6	47.1	55.6	55.6	64.4	64.9	66.2	68.0	68.2	68.8	68.9	68.9	69.2	69.2	69.5	70.4
≥ 14000	41.3	47.8	56.5	56.5	65.4	65.8	67.1	68.9	69.2	69.8	69.9	69.9	70.1	70.1	70.5	71.3
≥ 12000	41.5	47.9	56.6	56.6	65.7	66.2	67.5	69.3	69.5	70.1	70.3	70.3	70.5	70.5	70.8	71.7
≥ 10000	42.5	49.1	57.9	57.9	67.6	68.1	69.4	71.2	71.7	72.3	72.4	72.4	72.6	72.6	73.0	73.8
≥ 9000	42.5	49.1	57.9	57.9	67.6	68.1	69.4	71.2	71.7	72.3	72.4	72.4	72.6	72.6	73.0	73.8
≥ 8000	43.5	50.2	59.1	59.1	69.3	69.8	71.1	73.1	73.6	74.2	74.3	74.3	74.6	74.6	74.9	75.7
≥ 7000	43.5	50.2	59.1	59.1	69.4	69.9	71.2	73.2	73.7	74.3	74.4	74.4	74.7	74.7	75.0	75.9
≥ 6000	43.5	50.3	59.4	59.4	69.7	70.1	71.4	73.5	74.0	74.6	74.7	74.7	74.9	74.9	75.3	76.1
≥ 5000	44.6	51.5	60.9	60.9	71.3	71.8	73.1	75.1	75.6	76.2	76.3	76.3	76.6	76.6	76.9	77.8
≥ 4500	45.0	52.0	61.5	61.5	71.9	72.4	73.7	75.7	76.2	76.8	76.9	76.9	77.2	77.2	77.5	78.4
≥ 4000	48.9	56.6	66.7	66.7	77.4	77.9	79.6	82.1	82.6	83.4	83.8	83.8	84.0	84.0	84.3	85.2
≥ 3500	52.1	60.5	70.6	70.6	81.7	82.3	84.2	87.0	87.5	88.4	88.8	88.8	89.1	89.1	89.6	90.4
≥ 3000	55.1	64.0	74.7	74.7	86.6	87.3	89.4	92.1	92.8	93.9	94.3	94.3	94.6	94.6	95.1	95.9
≥ 2500	55.6	64.6	75.4	75.4	87.6	88.3	90.4	93.2	93.9	95.1	95.5	95.6	95.9	95.9	96.4	97.3
≥ 2000	55.6	64.6	75.5	75.5	87.8	88.5	90.8	93.5	94.3	95.5	95.8	95.9	96.7	96.7	97.1	98.0
≥ 1800	55.6	64.6	75.5	75.5	87.8	88.5	90.8	93.5	94.3	95.5	95.8	95.9	96.7	96.7	97.1	98.0
≥ 1500	55.6	64.9	75.7	75.7	88.1	88.9	91.2	94.1	94.9	96.1	96.4	96.5	97.3	97.3	97.7	98.6
≥ 1200	55.7	65.0	75.9	75.9	88.2	89.0	91.3	94.3	95.0	96.2	96.5	96.7	97.4	97.4	97.8	98.7
≥ 1000	55.7	65.0	75.9	75.9	88.2	89.0	91.3	94.3	95.0	96.2	96.7	96.8	97.5	97.5	98.0	98.8
≥ 900	55.9	65.0	75.9	75.9	88.2	89.0	91.3	94.3	95.0	96.2	96.7	96.8	97.5	97.5	98.0	98.8
≥ 800	55.9	65.1	76.0	76.0	88.4	89.2	91.5	94.5	95.2	96.4	97.0	97.1	97.8	97.8	98.3	99.2
≥ 700	55.9	65.1	76.0	76.0	88.4	89.2	91.5	94.5	95.2	96.4	97.0	97.1	97.8	97.8	98.3	99.2
≥ 600	55.9	65.1	76.0	76.0	88.4	89.2	91.6	94.6	95.3	96.5	97.1	97.3	98.0	98.0	98.4	99.3
≥ 500	55.9	65.1	76.0	76.0	88.4	89.2	91.6	94.6	95.3	96.5	97.1	97.3	98.0	98.0	98.4	99.3
≥ 400	55.9	65.1	76.0	76.0	88.4	89.2	91.6	94.6	95.3	96.5	97.1	97.3	98.0	98.0	98.4	99.4
≥ 300	55.9	65.1	76.0	76.0	88.4	89.2	91.6	94.6	95.3	96.5	97.1	97.3	98.0	98.0	98.4	99.4
≥ 200	55.9	65.1	76.0	76.0	88.4	89.2	91.6	94.6	95.3	96.5	97.1	97.3	98.0	98.0	98.6	99.5
≥ 100	56.0	65.2	76.1	76.1	88.5	89.4	91.8	94.9	95.6	96.8	97.4	97.5	98.2	98.2	98.8	100.0
≥ 0	56.0	65.2	76.1	76.1	88.5	89.4	91.8	94.9	95.6	96.8	97.4	97.5	98.2	98.2	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 837

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



USAF CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4-1-2  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.4	≥1	≥.5	≥.4	≥.3	≥.25	≥.2	≥.1
NO CEILING	37.0	42.1	47.7	47.7	55.7	56.6	58.6	60.7	61.2	62.0	62.3	62.4	62.7	62.7	63.7	63.8
≥ 20000	39.7	44.5	50.6	50.6	59.3	60.3	62.5	64.9	65.5	66.2	66.5	66.6	67.0	67.0	67.3	68.2
≥ 18000	39.4	44.9	51.1	51.1	59.8	60.9	63.1	65.4	66.0	66.8	67.1	67.2	67.6	67.6	67.9	68.8
≥ 16000	39.4	44.9	51.1	51.1	59.8	60.9	63.1	65.4	66.0	66.8	67.1	67.2	67.6	67.6	67.9	68.8
≥ 14000	39.5	45.2	51.4	51.4	60.2	61.2	63.5	65.8	66.4	67.2	67.5	67.6	67.9	68.1	68.2	69.2
≥ 12000	39.3	45.4	51.7	51.7	60.5	61.6	63.8	66.2	66.8	67.6	67.9	68.0	68.3	68.4	68.6	69.6
IV 10000	41.0	46.8	53.1	53.1	62.3	63.4	65.7	68.1	68.7	69.5	69.8	69.9	70.3	70.3	70.6	71.5
IV 9000	41.2	46.9	53.3	53.3	62.5	63.6	65.8	68.2	68.9	69.7	70.0	70.1	70.5	70.5	70.8	71.7
≥ 8000	42.3	47.9	54.5	54.5	64.3	65.4	67.7	70.3	71.0	71.9	72.2	72.3	72.6	72.7	72.9	73.9
IV 7000	42.4	48.4	55.1	55.1	64.9	66.1	68.5	71.1	71.8	72.6	72.9	73.0	73.4	73.4	73.7	74.6
≥ 6000	42.5	48.6	55.4	55.4	65.2	66.4	68.8	71.4	72.1	72.9	73.2	73.3	73.7	73.8	74.0	75.0
IV 5000	43.2	49.4	56.4	56.4	66.3	67.5	69.9	72.5	73.2	74.1	74.4	74.5	74.9	74.9	75.2	76.2
IV 4500	43.5	49.9	56.9	56.9	67.0	68.2	70.6	73.2	74.0	74.8	75.2	75.3	75.7	75.7	76.0	76.9
IV 4000	47.1	54.0	61.6	61.6	72.2	73.6	76.2	79.1	79.9	80.8	81.2	81.4	81.8	81.9	82.2	83.1
IV 3500	49.2	56.6	64.5	64.5	75.6	77.1	80.0	83.0	83.9	84.9	85.4	85.5	86.0	86.0	86.3	87.3
IV 3000	52.7	60.5	69.1	69.1	81.0	82.7	85.8	89.1	90.1	91.2	91.8	92.0	92.5	92.5	92.9	94.0
IV 2500	53.1	60.9	69.8	69.8	81.9	83.6	86.9	90.2	91.2	92.3	92.9	93.1	93.7	93.7	94.1	95.2
IV 2000	53.2	61.1	70.2	70.2	82.5	84.3	87.5	90.9	91.9	93.2	93.9	94.2	94.8	94.8	95.2	96.3
IV 1800	53.3	61.2	70.3	70.3	82.6	84.4	87.6	91.0	92.0	93.3	94.0	94.3	94.9	94.9	95.3	96.4
IV 1500	53.5	61.4	70.5	70.5	83.0	84.8	88.0	91.6	92.6	93.9	94.8	95.0	95.6	95.7	96.1	97.2
IV 1200	53.6	61.5	70.7	70.7	83.3	85.1	88.3	91.9	93.0	94.3	95.2	95.4	96.1	96.1	96.6	97.7
IV 1000	53.6	61.5	70.8	70.8	83.5	85.2	88.6	92.2	93.3	94.8	95.6	95.9	96.6	96.6	97.1	98.2
IV 900	53.6	61.6	70.8	70.8	83.5	85.3	88.6	92.3	93.3	94.8	95.7	96.0	96.6	96.7	97.2	98.3
IV 800	53.6	61.6	70.9	70.9	83.6	85.4	88.7	92.4	93.5	95.0	95.9	96.2	96.8	96.9	97.4	98.5
IV 700	53.7	61.7	70.9	70.9	83.7	85.4	88.8	92.5	93.6	95.1	96.0	96.3	96.9	97.0	97.5	98.6
IV 600	53.7	61.7	70.9	70.9	83.7	85.5	88.8	92.5	93.6	95.1	96.1	96.4	97.0	97.1	97.6	98.7
IV 500	53.7	61.7	70.9	70.9	83.7	85.5	88.9	92.6	93.7	95.2	96.2	96.5	97.2	97.2	97.7	98.9
IV 400	53.7	61.7	70.9	70.9	83.7	85.5	88.9	92.6	93.7	95.2	96.2	96.5	97.2	97.3	97.8	99.0
IV 300	53.7	61.7	70.9	70.9	83.7	85.5	88.9	92.6	93.7	95.3	96.3	96.6	97.3	97.4	97.9	99.2
IV 200	53.7	61.7	70.9	70.9	83.7	85.5	88.9	92.6	93.7	95.3	96.3	96.6	97.4	97.5	98.0	99.7
IV 100	53.7	61.7	70.9	70.9	83.7	85.5	88.9	92.6	93.7	95.3	96.3	96.7	97.4	97.5	98.1	99.9
IV 0	53.7	61.7	70.9	70.9	83.7	85.5	88.9	92.6	93.7	95.3	96.3	96.7	97.4	97.6	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS

6686

USAF ETAC

FORM  
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GENERAL CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

4127  
STATION

CSAN AB KC

STATION NAME

73-81

YEARS

ALL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥¼	≥0.1	≥0	≥0
NO CEILING	35.6	41.8	44.2	44.2	49.1	49.7	50.9	51.9	52.2	52.7	52.9	53.2	53.2	53.3	53.4	53.8
≥ 20000	40.5	48.0	51.7	51.7	56.7	57.4	58.8	59.9	60.3	60.8	61.0	61.2	61.4	61.5	61.6	62.1
≥ 18000	41.1	48.7	52.5	52.5	57.6	58.2	59.7	60.9	61.2	61.7	62.0	62.1	62.3	62.4	62.5	63.0
≥ 16000	41.2	48.9	52.7	52.7	57.8	58.5	59.9	61.1	61.4	61.9	62.2	62.3	62.6	62.6	62.8	63.2
≥ 14000	41.2	49.0	53.4	53.4	58.6	59.3	60.7	61.9	62.3	62.8	63.1	63.2	63.4	63.5	63.6	64.1
≥ 12000	42.0	50.9	54.6	54.6	60.1	60.8	62.3	63.5	63.9	64.4	64.7	64.8	65.1	65.1	65.3	65.7
≥ 10000	43.2	53.5	57.8	57.8	63.4	64.2	65.7	67.0	67.4	67.9	68.2	68.3	68.6	68.6	68.8	69.3
≥ 9000	45.6	54.1	58.4	58.4	64.1	64.8	66.4	67.7	68.1	68.6	68.9	69.0	69.3	69.4	69.5	70.0
≥ 8000	48.1	57.0	61.6	61.6	67.6	68.4	70.1	71.5	71.8	72.4	72.7	72.8	73.1	73.2	73.3	73.8
≥ 7000	49.1	58.2	62.9	62.9	69.1	69.9	71.6	73.0	73.4	74.0	74.3	74.4	74.7	74.8	74.9	75.4
≥ 6000	47.3	58.6	63.2	63.2	69.5	70.3	72.0	73.4	73.8	74.4	74.7	74.8	75.1	75.2	75.3	75.8
≥ 5000	50.2	57.7	64.5	64.5	70.9	71.8	73.5	75.0	75.3	75.9	76.3	76.4	76.7	76.7	76.9	77.4
≥ 4500	50.7	60.3	65.1	65.1	71.6	72.4	74.2	75.7	76.1	76.7	77.0	77.1	77.4	77.4	77.6	78.1
≥ 4000	53.0	63.1	68.2	68.2	75.2	76.1	77.9	79.5	79.9	80.6	80.9	81.1	81.4	81.4	81.6	82.1
≥ 3500	54.5	64.6	70.3	70.3	77.2	78.1	80.0	81.7	82.1	82.8	83.2	83.3	83.6	83.7	83.8	84.3
≥ 3000	57.2	69.1	73.9	73.9	81.8	82.8	84.9	86.8	87.3	88.0	88.4	88.5	88.9	88.9	89.1	89.6
≥ 2500	57.9	69.7	75.0	75.0	83.2	84.3	86.4	88.4	88.9	89.6	90.0	90.2	90.5	90.6	90.8	91.3
≥ 2000	53.7	70.1	75.2	76.2	84.7	85.8	88.1	90.1	90.6	91.4	91.8	92.0	92.4	92.4	92.6	93.1
≥ 1800	58.8	71.2	76.4	76.4	84.9	86.0	88.3	90.3	90.9	91.7	92.1	92.3	92.6	92.7	92.9	93.4
≥ 1500	59.4	71.9	77.3	77.3	86.1	87.2	89.6	91.6	92.0	93.0	93.5	93.6	94.0	94.1	94.3	94.8
≥ 1200	58.5	71.3	77.7	77.7	86.7	87.8	90.2	92.3	92.9	93.8	94.2	94.4	94.8	94.8	95.0	95.5
≥ 1000	59.9	71.7	78.2	78.2	87.4	88.6	91.1	93.3	93.9	94.8	95.3	95.5	95.9	95.9	96.1	96.7
≥ 900	60.0	71.8	78.3	78.3	87.6	88.8	91.3	93.5	94.1	95.0	95.5	95.7	96.1	96.1	96.3	96.9
≥ 800	60.1	71.9	78.5	78.5	87.9	89.1	91.7	93.9	94.5	95.5	95.9	96.1	96.5	96.6	96.8	97.3
≥ 700	60.1	72.0	78.7	78.7	88.1	89.4	92.0	94.3	94.9	95.8	96.3	96.5	96.9	97.0	97.2	97.7
≥ 600	60.2	72.1	78.8	78.8	88.3	89.6	92.2	94.6	95.2	96.2	96.7	96.9	97.3	97.4	97.6	98.1
≥ 500	60.2	72.1	78.9	78.9	88.5	89.9	92.5	95.0	95.6	96.6	97.2	97.4	97.8	97.9	98.1	98.7
≥ 400	60.2	72.2	78.9	78.9	88.6	89.9	92.7	95.2	95.8	96.8	97.4	97.6	98.0	98.1	98.4	99.0
≥ 300	60.2	72.2	78.9	78.9	88.6	90.0	92.7	95.2	95.9	97.0	97.5	97.8	98.2	98.4	98.6	99.3
≥ 200	60.2	72.2	78.9	78.9	88.7	90.0	92.7	95.3	95.9	97.0	97.6	97.9	98.3	98.5	98.8	99.7
≥ 100	60.2	72.2	78.9	78.9	88.7	90.0	92.7	95.3	95.9	97.0	97.6	97.9	98.4	98.5	98.8	99.9
≥ 0	60.2	72.2	78.9	78.9	88.7	90.0	92.7	95.3	96.0	97.0	97.7	97.9	98.4	98.5	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 78157

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperatures
  - b. Daily minimum temperatures
  - c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature.  
This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
  - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
  - b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC  
471220 OSAN AB KO

# DAILY TEMPERATURES

53-81

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
95						.2	2.4	2.7					.5
90						2.4	17.5	20.8	.6				3.5
85					2.8	15.0	48.7	60.3	7.6				11.4
80				1.5	16.1	51.2	80.8	87.0	38.7	2.3			23.3
75				7.2	45.3	81.8	96.1	96.9	74.3	10.9			34.6
70			1.0	20.8	70.3	95.2	99.3	99.7	93.6	36.9	1.1		43.4
65			3.2	40.6	88.9	99.5	99.8	100.0	99.2	66.2	7.1	.2	50.7
60		.6	11.1	63.7	97.8	99.9	100.0		100.0	86.3	25.3	1.0	57.4
55	.3	3.1	28.3	84.0	99.4	100.0				95.6	46.6	3.8	63.7
50	2.4	9.9	50.9	96.1	100.0					99.1	65.7	13.9	70.1
45	9.3	24.8	70.3	99.4						99.7	79.5	29.6	76.3
40	26.4	46.0	87.2	99.9						100.0	90.1	49.0	83.4
35	49.7	68.9	95.4	100.0							97.1	70.3	90.2
30	71.1	83.4	99.3								99.7	86.7	95.1
25	86.0	95.4	99.9								100.0	94.7	98.0
20	94.9	98.8	100.0									98.1	99.3
15	99.1	99.9										99.7	99.9
10	100.0	100.0										100.0	100.0
5													
0													
-5													
-10													
-15													
-20													
-25													
-30													
-35													
-40													
-45													
-50													
-55													
-60													
-65													
-70													
-75													
-80													
-85													
-90													
-95													
MEAN	33.9	38.5	49.3	62.6	73.0	79.2	84.2	85.4	77.6	66.8	52.5	39.3	61.9
S. D.	8.252	8.554	8.437	7.879	6.491	5.458	5.520	5.200	5.127	6.729	9.000	9.110	19.295
TOTAL OBS.	890	819	898	870	899	866	899	899	870	899	870	898	10577

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC  
471220 OSAN AB KO

## DAILY TEMPERATURES

53-81

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
9							.6	.6					.1
75						.3	24.7	26.3	.6				4.4
73						5.5	65.9	65.3	5.7				12.1
65					.7	28.2	92.3	88.9	22.3	.1			19.6
60				.6	9.6	71.6	99.1	98.7	51.5	1.9			27.9
55			.1	4.5	36.2	94.2	100.0	99.8	75.5	10.2	.2		35.2
50			.4	15.9	67.9	99.5		100.0	91.3	27.8	2.2	.1	42.3
45		.1	2.0	35.1	89.5	100.0			98.4	49.3	8.3	.3	48.9
40	.1	.9	7.8	56.8	99.2				99.7	73.0	22.5	1.9	55.4
35	2.7	5.1	21.7	82.8	100.0				100.0	92.8	44.0	7.1	63.3
33	3.9	8.7	32.1	89.0						96.6	52.8	11.4	66.5
30	8.4	17.6	54.2	95.7						99.4	68.6	20.8	72.3
25	19.2	38.5	82.7	99.8						100.0	86.4	42.2	80.9
20	38.0	58.2	96.2	100.0							96.2	62.9	87.8
15	56.7	74.4	99.6								99.7	81.6	92.7
10	73.0	87.3	100.0								99.9	92.5	96.1
5	86.5	94.6									100.0	97.2	98.2
0	94.3	98.7										99.2	99.3
-5	97.6	99.3										99.8	99.7
-10	99.4	99.5										100.0	99.9
-15	99.9	99.9											100.0
-20	100.0	100.0											100.0
MEAN	15.8	20.6	30.2	41.5	52.1	61.9	71.1	70.9	59.3	44.6	33.4	22.3	43.6
S.D.	10.113	9.535	6.213	7.302	5.649	4.711	4.360	4.680	6.927	7.189	7.922	6.821	20.050
TOTAL OBS.	890	819	898	870	899	866	899	899	870	899	870	898	10577



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

## MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

471220 OSAN AB KO

53-81

STATION

STATION NAME

YEARS

### WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
53	* 47	54*	60	78	85*	91	93	98	85	82	64	65	98
54	48	54	70	80	83	88	91	95	90	75	68	54	95
55	44	60	65	81	85	92	93	93	91	83	65	57	93
56	48	50	63	75	80	87	96	97	90	77	70	48	97
57	44	44	59	80	85	87	89	93	84	80	65	51	93
58	48	58	71	80	86	96	96	94	85	77	66	54	96
59	50	58	64	76	83	89	94	98	89	81	67	58	98
60	54	56	65	78	86	89	95	97	89	77	66	57	97
61	42	56	62	75	85	87	97	96	88	78	67	56	97
62	48	54	66	74	88	89	96	91	87	78	70	54	96
63	38	50	70	72	80	84	91	91	85	72	65	51	91
64	47	44	70	78	82	90	94	95	84	76	58	52	95
65	43	48	58	80	88	92	94	90	85	81	66	55	94
66	51	55	61	79	84	88	90	95	86	75	66	53	95
67	54	59	62	80	84	85	93	92	86	70	64	42	93
68	48	52	65	77	81	86	90	90	88	81	68	65	90
69	50	49	68	77	79	88	88	91	85	79	65	55	91
70	50	58	65	78	85	85	92	90	88	76	65	54	92
71	49	54	70	76	86	85	92	92	85	74	72	54	92
72	56	47	65	79	79	88	97	91	80	77	64	57	97
73	51	59	66	78	80	86	96	96	87	75	60	53	96
74	50	53	68	77	86	87	87	91	84	75	69	51	91
75	44	53	62	84	84	91	95	98	91	82	68	60	98
76	50	60	59	73	89	91	89	89	82	75	68*	55	91
77	42	64	71	78	82	91	95	89	84	82	66	59	95
78	48	57	64	80	87	89	96	89	86	82	66	60	96
79	55	62	64	75	82	82	89	91	82	77	72	54	91
80	52	55	63	77	86	88	86	82	82	77	66	52	88
81	34	46	70	77	86	88	95	90	84	75	57	52	95
MEAN	47.8	54.1	65.2	77.7	84.0	88.1	92.7	92.6	85.9	77.6	66.0	54.8	94.1
S. D.	5.021	5.226	3.804	2.567	2.777	2.864	3.161	3.601	2.828	3.269	3.428	4.687	2.685
TOTAL OBS	890	819	898	870	899	866	899	899	870	899	870	898	10577

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
JUL 64

0-88-5 (OLA)

(AT LEAST ONE DAY LESS THAN 24 OBS)



2

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

471220  
STATION

OSAN AB KO

STATION NAME

53-81

YEARS

## WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS	
53	*	3	4*	24	32	41*	53	62	59	49	36	19	15	*
54		11	-7	19	34	44	55	58	63	48	32	26	9	-7
55		-8	5	21	28	44	49	64	66	50	31	24	17	-8
56		3	-11	19	32	42	55	64	60	41	27	16	0	-11
57		8	-1	16	24	40	52	64	61	38	27	20	7	-1
58		-8	-2	15	30	43	54	66	59	44	30	27	25	-8
59		1	19	21	33	46	53	66	65	50	33	22	7	1
60		0	17	19	28	41	55	64	64	51	39	14	4	0
61		-6	5	24	31	40	58	70	68	47	33	25	13	-6
62		8	9	23	27	42	50	60	65	46	35	20	14	8
63		-16		22	30	41	53	64	64	45	30	18	10	-16
64		12	6	21	34	45	56	67	66	51	29	24	14	6
65		-2	10	16	24	39	50	62	65	41	34	22	1	-2
66		0	3	25	27	41	49	57	67	47	32	9	6	0
67		-5	9	20	33	43	57	62	69	46	33	18	-3	-5
68		3	-2	19	30	41	48	64	59	42	34	21	6	-2
69		3	-17	13	30	41	50	57	60	53	33	21	10	-17
70		1	8	21	28	44	50	60	62	46	33	15	8	1
71		-6	4	13	27	43	56	65	63	47	32	22	13	-6
72		16	20	20	27	43	58	63	59	44	30	14	6	16
73		14	15	21	26	46	55	69	71	39	30	17	-9	-9
74		-7	5	12	33	39	53	62	57	46	30	17	10	-7
75		6	10	19	30	44	53	64	64	53	37	21	5	6
76		1	17	19	26	39	55	57	64	46	28	19*	-4	*
77		-2	0	14	28	42	57	66	53	41	33	19	12	-2
78		0	3	21	28	37	50	64	62	48	33	19	12	0
79		12	1	21	26	41	55	62	53	43	34	18	14	12
80		1	-2	21	30	37	55	55	59	45	30	27	-4	-2
81		-13	1	23	28	41	46	70	63	46	28	18	9	-13
MEAN		1.0	4.5	19.2	29.1	41.7	53.2	63.0	62.4	46.0	31.9	19.7	8.3	-3.6
S. D.		8.021	8.530	3.414	2.833	2.328	3.080	3.822	4.247	3.887	2.890	4.122	7.011	6.477
TOTAL OBS		890	819	898	870	899	866	899	899	870	899	870	898	10577

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
AL 64

0-88-5 (OLA)

(AT LEAST ONE DAY LESS THAN 24 OBS)

## PSYCHROMETRIC SUMMARY

471220  
STATION

OSAN AB KO

**73-81**

JAN  
MONTH

**PAGE 1**

0000-0200  
HOURS (L, S, Y.)

100-1020  
100-1020 (1-3-7)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
46/ 45		.1																1	1													
44/ 43		.1																1	1													
42/ 41		.4	.5	.2														9	9	2												
40/ 39	.4	.8	.2	.5														16	16	5												
38/ 37	.7	.2	.7															14	14	17												
36/ 35	1.7	1.8	1.8	.1														45	45	23												
34/ 33	1.9	.7	1.6	.1														36	36	52												
32/ 31	.1	1.3	.7	.4														21	21	23												
30/ 29	.5	3.7	.7															41	41	35												
28/ 27	2.9	4.7	2.2	.2														83	83	63												
26/ 25	2.9	3.8	1.8															71	71	70												
24/ 23	2.3	6.0	1.3															80	80	73												
22/ 21	1.3	4.0	1.6															57	57	56												
20/ 19	2.2	4.0	1.8															66	66	60												
18/ 17	.5	3.4	1.2															42	42	53												
16/ 15	.4	5.9	.6															57	57	48												
14/ 13	.1	2.6	.6															28	28	68												
12/ 11	1.1	2.6																31	31	47												
10/ 9	.8	3.0																32	32	27												
8/ 7	.4	3.1																29	29	20												
6/ 5	.4	2.0																20	20	26												
4/ 3	.8	1.3																18	18	18												
2/ 1	1.2	.2																12	12	21												
0/ -1	1.7																	14	14	16												
-2/ -3	.1																	1	1	1												
-4/ -5	.1																	1	1	1												
-6/ -7	.6																	5	5	5												
-8/ -9	.1																	1	1	1												
-10/-11	.2																	2	2	2												
-12/-13																																
-14/-15																																
-16/-19																																
TOTAL	25.3	55.9	17.3	1.6														834	834	834												
Element (R)	ΣR <sup>1</sup>	ΣR	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature																										
Ref. Num.	4998233	63423	76.0	14.499	834	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total																				
Dry Bulb	464001	17765	21.3	10.136	834	2.7	79.4					93																				
Wet Bulb	410272	16570	19.9	9.864	834	2.9	81.8					93																				
Dew Point	294101	12157	14.8	11.866	834	12.5	87.1					93																				

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 1

0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
44/ 43		.2																2	2						
42/ 41		.6																8	8	5	4				
40/ 39	.4	.5	.6	.4														15	15	5	4				
38/ 37	.6	.4	.8															15	15	9	7				
36/ 35	1.4	1.6	.7															31	31	27	17				
34/ 33	1.7	1.4	1.1															35	35	37	17				
32/ 31		1.9	.5															20	20	25	11				
30/ 29	.1	3.0	1.0	.1														35	35	28	19				
28/ 27	2.4	3.8	1.7															66	66	55	37				
26/ 25	3.0	2.8	1.8															63	63	56	44				
24/ 23	3.0	5.6	2.0															89	89	79	67				
22/ 21	1.7	3.4	.4															45	45	55	44				
20/ 19	1.3	4.2	1.0															54	54	51	44				
18/ 17	.7	4.2	1.9															57	57	55	33				
16/ 15	1.0	3.7	.8															46	46	50	45				
14/ 13	.4	2.8	.4															29	30	53	44				
12/ 11	1.8	3.7	.5															50	51	62	41				
10/ 9	.8	4.0																40	40	34	59				
8/ 7	.6	3.1																31	31	34	32				
6/ 5	.6	2.6																27	27	20	45				
4/ 3	.7	.8																13	13	24	49				
2/ 1	1.6	.6																18	18	20	28				
0/ -1	2.5																	21	21	26	36				
-2/ -3	1.0																	8	8	8	18				
-4/ -5	.5																	4	4	4	30				
-6/ -7	.2																	2	2	2	21				
-8/ -9	.7																	6	6	6	20				
-10/ -11	.1																	1	1	1	5				
-12/ -13	.1																	1	1	1	2				
-14/ -15																					3				
-16/ -17																					3				
-18/ -19																					1				
-20/ -21																					1				
-24/ -25																					1				
Element (X)	Σ <sub>h</sub> <sup>1</sup>	Σ <sub>h</sub>	Σ	Σ <sub>h</sub>	No. Obs.	Mean No. of Hours with Temperature																			
Rel. Hum.						≤ 6 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total													
Dry Bulb																									
Wet Bulb																									
Dew Point																									

FORM 0-26-5 (OL A) REVERSED MIRROR IMAGES OF THE FORM ARE OBSOLETE  
USAFETAC JAN 64

## PSYCHROMETRIC SUMMARY

**JAN**  
**MONTH**

0300-0500  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

471227  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 1

0600-0800  
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL D.B./W.B.	TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point													
42 / 41	.1	.4	.2	.4														9	9	2	1												
40 / 39	.6	.5	.1	.1														11	11	7	6												
38 / 37	1.1	.5	.2															15	15	15	12												
36 / 35	1.0	1.6	.7	.1														28	28	20	11												
34 / 33	1.8	1.1	1.7															38	38	31	20												
32 / 31	.4	1.6	.6															21	21	31	11												
30 / 29	.5	2.0	.5															25	25	25	22												
28 / 27	2.8	4.6	1.9	.5														81	81	50	32												
26 / 25	1.6	2.4	1.4															45	45	52	42												
24 / 23	3.1	4.6	.8															71	71	68	58												
22 / 21	2.0	3.1	1.1															52	52	53	36												
20 / 19	1.8	3.6	.6															50	50	48	47												
18 / 17	.8	5.3	1.2															61	61	55	43												
16 / 15	1.0	3.6	1.1															47	47	67	30												
14 / 13	.2	3.2	.5															33	33	46	26												
12 / 11	1.1	3.0	.5															38	38	46	54												
10 / 9	1.7	3.7	.2															47	49	46	65												
8 / 7	.4	3.1																29	29	27	36												
6 / 5	1.0	2.4																28	28	31	42												
4 / 3	.4	2.0																20	20	12	45												
2 / 1	1.1	1.1																18	18	26	27												
/ -1	3.4	.1																29	29	37	36												
-2 / -3	1.4	.1																13	13	14	23												
-4 / -5	1.4	.1																13	13	14	23												
-6 / -7	1.2																	10	10	10	28												
-8 / -9	.2																	2	2	2	26												
-10 / -11	.5																	4	4	4	18												
-12 / -13	.5																	4	4	4	13												
-14 / -15	.4																	3	3	3	3												
-16 / -17																					7												
-18 / -19																					5												
TOTAL	31.9	53.6	13.5	1.1														832	832	832	832												
Element (X)	ΣX'			ΣX			X			X'			No. Obs.			Mean No. of Hours with Temperature										Total							
Rel. Hum.																																	
Dry Bulb	5090820			63960			76.9			14.466			832																				
Wet Bulb	396189			15567			18.7			11.261			834			7.2										81.7			93				
Dew Point	354235			14553			17.5			10.952			832			8.3										84.6			93				

FORM 0-26-5 (O.L.A.)  
USAFETAC



## PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

JAN  
MONTH

0900-1100  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122 OSAN AB KO 73-81 JAN  
STATION STATION NAME YEARS MONTH  
PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point							
50 / 55				.1																	1	1					
49 / 53				.2	.1																3	3					
48 / 51			.4		.4																6	6					
50 / 49			.1	.1	.1	.1															4	4	4				
42 / 47		.1		.7	.7	.1															14	14	3				
40 / 45			.5	1.6	1.6		.1														31	31	3	3			
44 / 43		.6	.8	1.6	1.2	.4															38	38	7	4			
20 / 41		1.4	2.5	1.9	2.0	.5															70	70	24	4			
40 / 39	.2	1.8	1.8	1.9	.8																55	55	39	10			
30 / 37		.6	3.5	3.1	1.0																68	68	57	19			
70 / 35		.5	1.8	1.8	1.0	.1															43	43	47	22			
34 / 33	.4	.7	2.6	4.8	1.0	.2															81	81	74	32			
22 / 31		.8	2.3	1.6	2.0																56	56	64	21			
10 / 29	.1	1.4	1.8	1.9	1.9																60	60	59	37			
20 / 27	.4	2.8	2.9	4.2	.6																90	90	82	59			
20 / 25		1.6	2.5	2.6	.1																57	57	67	52			
24 / 23	.1	1.0	2.2	2.8	.1																51	51	76	53			
22 / 21	.2	.8	1.8	1.0																	32	32	72	54			
20 / 19	.6	.5	2.2	.6																	32	32	52	47			
10 / 17		.6	1.6																		18	18	34	59			
10 / 15	.1	.8	.8																		15	15	33	43			
10 / 13	.1	.1	.4																		5	5	23	23			
10 / 11	.1		.1																		2	2	11	26			
10 / 9	.1																				1	1	2	60			
0 / 7	.1	.1																			2	2	1	29			
0 / 5		.1																			1	1	1	48			
4 / 3																							1	30			
0 / 1																								26			
0 / -1																								26			
-2 / -3																								5			
-4 / -5																								20			
-6 / -7																								13			
-8 / -9																								7			
-10 / -11																								2			
Element (X)	Σ x <sup>2</sup>				Σ x				Σ				Σ <sub>n</sub>				No. Obs.				Mean No. of Hours with Temperature						
Rel. Hum.																					≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb																											
Wet Bulb																											
Dew Point																											

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

JAN  
MONTH

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

471227  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

JAN

MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
54 / 55				.2	.1													3	3					
54 / 53				.2														2	2					
52 / 51				.1	.4													4	4					
51 / 49			.1	.2	.2	.7	.1											12	12	3				
49 / 47		.2		.6	1.2	.2	.2											21	21	4				
48 / 45			1.0	.8	1.7	.5	.2											35	35	2	2			
44 / 43		.5	1.3	2.0	1.6	.4	.2											50	50	7	4			
42 / 41		.6	1.9	2.6	1.6	.8												63	63	33	6			
41 / 39		1.4	2.5	2.8	1.2	.1												67	67	35	7			
39 / 37	.4	.7	2.3	3.8	.5	.2												66	66	57	17			
38 / 35	.1	1.1	1.8	2.5	2.0	.1												64	64	71	23			
34 / 33	.1	.6	2.3	3.5	1.6	.2												69	69	73	26			
32 / 31	.1	.7	1.1	2.2	1.3	.1												46	46	71	35			
31 / 29		1.7	1.8	3.3	1.4													69	69	56	32			
28 / 27	.2	3.0	3.0	5.1	.5													99	99	80	66			
26 / 25		1.7	1.4	2.5														47	47	91	53			
24 / 23		.6	2.8	1.6	.1													42	42	66	57			
22 / 21		.8	1.9	.6														28	28	65	51			
21 / 19		.4	2.0															20	20	42	53			
18 / 17		1.1	1.2															19	19	33	40			
16 / 15		.1	.5															5	5	27	36			
14 / 13		.1	.4															4	4	12	37			
12 / 11			.1															1	1	4	42			
11 / 9																				4	57			
8 / 7																					44			
6 / 5																					44			
4 / 3																					26			
2 / 1																					27			
1 / -1																					17			
-2 / -3																					8			
-4 / -5																					15			
-6 / -7																					3			
-8 / -9																					2			
-10 / -11																					5			
Element (X)	Σ X <sup>2</sup>		Σ X		X		Σ X		No. Obs.		Mean No. of Hours with Temperature										Total			
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 47 F	≥ 73 F	≥ 80 F	≥ 93 F								
Dry Bulb																								
Wet Bulb																								
Dew Point																								

FORM 3-26-5 (OL A) REUSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC JAN 84

## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

[illegible]

0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**

## PSYCHROMETRIC SUMMARY

**JAN**  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

471220 OSAN AB KO 73-81 JAN  
STATION STATION NAME YEARS MONTH  
PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
46/ 45			.1															1	1						
44/ 43			.4															3	3						
42/ 41	.2	.7	.7	.1														15	15	3	2				
40/ 39	.1	.8	.8	.6	.1													21	21	12	2				
38/ 37	1.0	1.0	1.6	.4														32	32	19	11				
36/ 35	1.0	1.9	2.0	.6														46	46	25	22				
34/ 33	1.9	1.4	1.0	.2														38	38	62	29				
32/ 31	.4	2.3	.8	.4														32	32	39	18				
30/ 29	.4	4.7	1.8															57	57	47	27				
28/ 27	3.8	6.0	3.1	.5														112	112	87	64				
26/ 25	2.0	4.2	2.3															71	71	66	54				
24/ 23	.8	5.3	3.1															77	77	73	79				
22/ 21	.7	4.5	1.8															59	59	56	37				
20/ 19	1.0	3.2	1.7															49	49	68	47				
18/ 17	.4	5.5	1.0															57	57	48	39				
16/ 15	.1	3.0	.6															31	31	65	41				
14/ 13	.1	2.3	.1															21	21	35	29				
12/ 11	.5	3.0	.5															33	33	37	47				
10/ 9	1.1	2.0	.1															27	27	31	68				
8/ 7	.1	1.1																10	10	15	46				
6/ 5	.5	1.7																18	18	15	55				
4/ 3	1.0	.6																13	13	15	23				
2/ 1	.2	.1																3	3	7	16				
0/ -1	1.1																	9	9	10	21				
-2/ -3	.2																	2	2	2	22				
-4/ -5																					21				
-6/ -7																					8				
-8/ -9																					3				
-10/-11																					3				
-12/-13																					2				
-14/-15																					1				
TOTAL	18.5	55.2	23.4	2.7	.1													837	837		837				
																		837		837					
Element (X)	Σ X <sup>2</sup>		Σ X		X	Σ X		No. Obs.		Mean No. of Hours with Temperature							Total								
Rel. Hum.	4779911		62045		74.1	14.700		837		≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total									
Dry Bulb	549195		19959		23.8	9.361		837		1.2	75.7					93									
Wet Bulb	477697		18493		22.1	9.092		837		1.3	79.6					93									
Dew Point	332910		13744		16.4	11.325		837		9.0	85.7					93									

0-26-3 (OL A) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC



## PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

JAN  
MONTH

ALL  
HOURS (11:30 - 7:00)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.S./W.S.	Dry Bulb	Wet Bulb	Dew Point			
-1/-13	.1																	4	4	4	15			
-14/-15																					15			
-16/-17																					10			
-18/-19																					8			
-20/-21																					1			
-24/-25																					1			
TOTAL	16.34	1.72	5.91	1.4	3.9	.6	.1											6680	6684	6680	6680			

**USAFETAC**  
FORM  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

**FEB**  
**MONTH**

0000-0200  
HOURS (L. S. T.)



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# PSYCHROMETRIC SUMMARY

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

FEB

MONTH

PAGE 1 0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point																		
46/ 47		.3	.1															3	3	3													3	3				
44/ 45		.1	.3															3	3	3													3	3		1		
44/ 43			.9															7	7	7													7	7	4	1		
42/ 41	.1	.9	.5															12	12	12													12	12	10	5		
41/ 39	.4	1.6	.1															16	16	16													16	16	7	16		
38/ 37	1.1	2.6	1.8	.1														43	43	43													43	43	24	9		
36/ 35	.1	2.6	1.4	.1														33	33	33													33	33	24	20		
34/ 33	1.2	3.4	1.2	.7														49	49	49													49	49	54	19		
32/ 31	.7	2.2	1.1	.3														32	32	32													32	32	42	30		
31/ 29	.7	4.1	3.4	.3														64	64	64													64	64	42	39		
28/ 27	1.6	8.4	.8															82	82	82													82	82	78	39		
26/ 25	2.2	4.5	.8															57	57	57													57	57	84	43		
24/ 23	1.2	5.7	1.6															64	64	64													64	64	45	68		
22/ 21	.9	3.9	1.1															45	45	45													45	45	44	57		
21/ 19	.8	3.2	1.3															40	40	40													40	40	47	46		
18/ 17	.4	4.7	.3															41	41	41													41	41	40	49		
16/ 15	.3	3.3	.4															30	30	30													30	30	53	30		
14/ 13		1.7	.1															14	14	14													14	14	26	24		
12/ 11	.3	3.2	.5															30	30	30													30	30	26	36		
10/ 9	.9	3.3	.3															34	34	34													34	34	33	37		
8/ 7	.3	2.1	.1															19	19	19													19	19	21	33		
6/ 5	.4	2.0																18	18	18													18	18	19	43		
4/ 3	.3	1.2																11	11	11													11	11	12	21		
2/ 1	.1	.9																8	8	8													8	8	10	19		
1/ -1	.8																	6	6	6													6	6	13	23		
-2/ -3																																					10	
-4/ -5																																					20	
-6/ -7																																					9	
-8/ -9																																					7	
-10/ -11																																					4	
-14/ -15																																					1	
-16/ -17																																					2	
TOTAL	14.6	66.8	17.2	1.4														761	761	761													761	761	761	761		
Element (X)	2x'	2x	X	X	No. Obs.	Mean No. of Hours with Temperature					Total																											
Rel. Hum.	4557056	58022	76.2	13.239	761	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F																											
Dry Bulb	517947	18323	24.1	10.050	761	.7	65.7																															
Wet Bulb	458487	17119	22.9	9.827	761	1.4	70.1																															
Dew Point	340414	13248	17.4	12.019	761	8.4	76.2																															

## PSYCHROMETRIC SUMMARY

FEB

**MONTH**

0600-0800

HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

**FEB**  
**MONTH**

PAGE 2 3600-0800  
HOURS (L. S. T.)

[illegible]

**USAFETAC** FORMS  
AS 44  
0-20-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

471720      OSAN AB KO  
STATION

73-81

**FEB**  
MONTH

PAGE 2 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
-14/-15																					2			
TOTAL	6.6	42.7	33.7	14.3	2.1	.7												762	762	762	762			

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB XO

STATION NAME

73-81

YEARS

FEB  
MONTH

PAGE 1

1200-1400  
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
27/ 61							.1														1	1			
27/ 59					.1	.4	.3														6	6			
26/ 57				.3	.1	.1		.1	.1												6	6			
56/ 55				.4		.5	.1		.1												9	9			
44/ 53				.3	.3	.3	.3	.3													10	10			
27/ 51				.7	.3	1.3	.4														20	20	6		
57/ 49			.5	.4	.3	1.1															17	17	7		
46/ 47		.4	.5	1.2	1.2	.3	.1														28	28	6	2	
46/ 45		.3	1.6	.8	2.0	1.2	.1														45	45	20	3	
44/ 43		.9	2.0	1.7	1.7	.7	.1														54	54	29	9	
27/ 41	.3	1.3	2.8	3.0	2.2	.8															79	79	37	15	
47/ 39		2.2	1.1	2.5	2.0	.4															62	62	55	18	
38/ 37	.1	1.4	1.7	2.9	2.4	.5															69	69	65	25	
36/ 35	.1	1.6	2.6	2.5	1.4	.1															64	64	68	42	
34/ 33		1.2	1.6	1.7	1.7																47	47	66	33	
42/ 31	.7	.9	1.3	.9	1.1	.1															38	38	79	35	
37/ 29	.1	.5	2.1	2.2	.4																41	41	59	39	
28/ 27		2.1	1.7	2.4	1.1																55	55	45	63	
26/ 25	.1	.5	1.1	2.8																	34	34	65	51	
24/ 23		.3	1.6	1.8																	28	28	29	55	
22/ 21		.1	.7	.9																	13	13	33	38	
27/ 19		.7	.7																		10	10	37	44	
18/ 17		.3	1.4																		13	13	19	39	
16/ 15		.1	1.1																		9	9	16	35	
14/ 13			.3																		2	2	12	16	
17/ 11			.1																		1	1	5	37	
17/ 9																							3	27	
17/ 7																								15	
17/ 5																								27	
47/ 3																								18	
27/ 1																								19	
27/ -1																								18	
27/ -3																								16	
27/ -5																								13	
Element (X)	ΣX <sup>2</sup>		ΣX		Σ		Σ <sub>n</sub>		No. Obs.		Mean No. of Hours with Temperature						Total								
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total								
Dry Bulb																									
Wet Bulb																									
Dew Point																									

USAFETAC FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

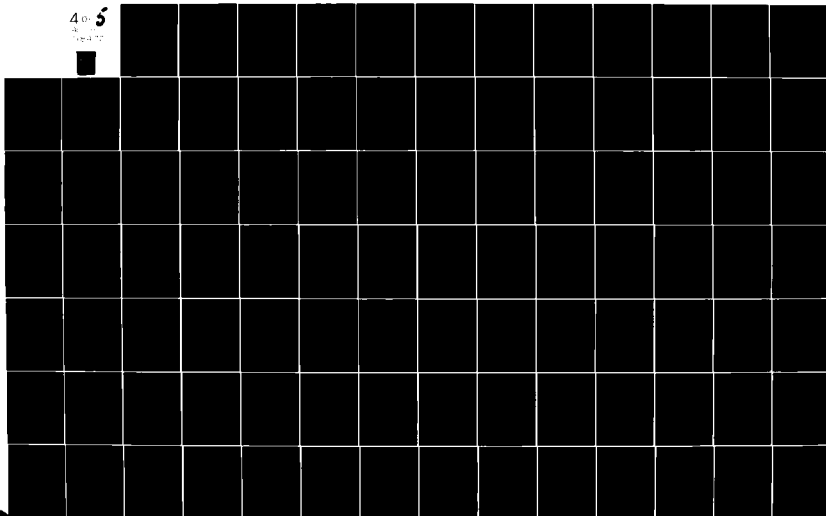
FEB  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

[illegible]

AD-A116 472 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
OSAN AB, KOREA. REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBS--ETC(11)  
JUN 82  
UNCLASSIFIED USAFETAC/DS-82/035 SBI-AD-F850 194 NL

40-6  
3  
Type 17





## PSYCHROMETRIC SUMMARY

FE3  
MONTH

PAGE 1      1500-1700  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

**FEB**  
**MONTH**

1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 1800-2000  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

FEB

**MÔNH**

PAGE 2 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
T TAL	1.7	2.9	.3	4.4	.7	0.2	3.4	1.2	.1	.1									762	762	762											
																				</												

## PSYCHROMETRIC SUMMARY

FEB  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
5 / 40		.1	.3															3	3	1												
6 / 47		.1		.1														2	2	1	1											
4- / 45	.1	.3	.7	.1														9	9	3	2											
4 / 43		.8	.8															12	12	5	1											
2 / 41		2.0	.7	.5														24	24	14	7											
4 / 39		2.4	1.8	.1														33	33	17	10											
3- / 37	1.6	3.8	2.2	.7														63	63	36	22											
2- / 35	.4	3.5	3.4	.8														62	62	54	36											
3- / 33	.5	2.0	3.3	1.2														53	53	48	36											
2 / 31	.4	3.8	3.4	1.1														66	66	66	13											
1 / 29		7.1	2.4	.5														76	76	69	41											
2- / 27	1.6	8.0	4.7	.5														113	113	104	68											
1 / 25	.3	2.2	1.7	.1														33	33	73	51											
2- / 23	.1	3.0	3.2															48	48	46	95											
2 / 21	.7	2.4	2.7															38	38	50	38											
1 / 19	.5	1.6	2.1															32	32	37	49											
1- / 17		1.7	1.1															21	21	27	40											
1 / 15	.1	1.8	.8															21	21	38	31											
1- / 13		1.3	.1															11	11	22	24											
1 / 11	.3	1.6	.5															18	18	19	32											
1 / 9	.1	1.3	.4															14	14	16	53											
1 / 7		.7																5	5	7	18											
1 / 5	.3	.1																3	3	7	26											
1 / 3		.1																1	1		21											
1 / 1																				1	21											
1 / -1																					12											
-1 / -3																					2											
-1 / -5																					2											
-1 / -7																					4											
-1 / -9																					3											
-1 / -11																					2											
TOTAL	7.051	8.35	5.5	5.8															761	761	761											
																		761		761												
Element (X)	Σ X'	Σ X	X̄	s <sub>x</sub>	No. Obs.																											

## PSYCHROMETRIC SUMMARY

47122                      OSAN AB KO  
STATION

73-81

FEA  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

FEB

MONTH

ALL

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
-4 / -5																					77	
-6 / -7																					46	
-8 / -9																					37	
-10 / -11																					16	
-12 / -13																					8	
-14 / -15																					6	
-16 / -17																					5	
TOTAL	7.8	43.1	27.2	13.3	5.4	2.3	.6	.1	.1	.0									6091	6092	6091	
																			6091	6091		

## PSYCHROMETRIC SUMMARY

73-81

MAR

PAGE 1 0000-0200  
HOURS (L - S - T -)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47120  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAR

MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
4 / 53	.4	.4																		6	6	3	3	
2 / 51		.1	.1																	2	2	4	3	
5 / 49		.2	.1																	3	3	2	1	
4 / 47			.2	.2																4	4	1	2	
4 / 45		1.3	.8	1.1	.4															30	30	8		
4 / 43	.1	1.7	.7	.4																24	24	14	8	
2 / 41		1.9	2.5	.4																40	40	25	16	
4 / 39	.2	3.8	2.3	.1	.1															55	55	34	15	
3 / 37	1.7	2.5	2.5	.4																53	53	58	25	
3 / 35	.5	6.2	4.1	1.0	.1															99	99	53	38	
3 / 33	2.2	5.4	3.0	.2																90	90	110	64	
2 / 31	.8	6.8	1.2	.1	.2															77	77	100	77	
2 / 29	1.6	8.0	.8	.6																92	92	116	73	
2 / 27	3.5	8.6	2.9	.5																129	129	107	120	
2 / 25	1.3	4.4	1.2	.5																62	62	69	104	
2 / 23	1.1	3.1	1.3	.1																47	47	65	93	
2 / 21	.5	.1	.4	.2																10	10	41	42	
1 / 19		.5	.2																	6	6	7	39	
1 / 17		.1																		1	1	8	29	
10 / 15		.5																		4	4	5	22	
10 / 13																						4	7	
10 / 11		.1																		1	1	1	19	
10 / 9																							8	
10 / 7																							4	
10 / 5																							14	
10 / 3																							5	
10 / 1																							1	
10 / -5																							3	
TOTAL	13.1	55.9	24.4	5.7	.8															835	835	835	835	
Element (X)	Σ X <sup>2</sup>	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature							Total											
Rel. Hum.	5374322	66024	79.1	13.578	835	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total												
Dry Bulb	932651	27371	32.8	6.519	835		47.8					93												
Wet Bulb	823655	25689	30.8	6.321	835		58.3					93												
Dew Point	649875	22251	26.6	8.262	835	.3	73.5					93												

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

MAR

**MONTH**

PAGE 1

0670-3800

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
47/53	.4	.1																4	4	3	3														
47/51		.1	.1															2	2	1	1														
47/49		.1																1	1	1															
47/47		.7		.2														8	8	3	1														
47/45		1.6	1.3	.4	.1													28	28	14	8														
47/43		2.2	.4	1.0														29	29	10	10														
27/41	.1	1.8	2.4	.2														38	38	30	14														
27/39		2.9	1.8	.1														40	40	26	16														
37/37	1.1	4.1	3.7															68	68	53	25														
37/35	.8	6.3	3.6	1.1														99	99	63	47														
37/33	1.6	7.3	2.9	.7														104	104	111	59														
27/31	.6	4.9	1.0	.5														58	58	109	56														
27/29	1.4	7.7	1.1	.2														87	87	93	95														
27/27	4.4	7.1	1.3	.5														108	108	102	126														
27/25	1.8	4.5	1.7	.4														70	70	76	81														
27/23	1.4	4.1	1.2	.1														57	57	63	77														
27/21	.8	.7	.6	.2														20	20	42	57														
27/19	.2	.5	.1															7	7	16	50														
27/17		.4	.1															4	4	9	33														
17/15		.4																3	3	6	24														
17/13		.1																1	1	4	5														
17/11																				1	8														
17/9																					13														
17/7																					6														
17/5																					9														
17/3																					7														
17/1																					2														
17/-3																					1														
17/-5																					2														
TOTAL	14.7	57.4	22.1	5.6	.1													836	836	836	836														

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB KO  
STATION NAME

73-81  
YEARS

MAR  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																		TOTAL		TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.		Dry Bulb		Wet Bulb		Dew Point																
61				.1		.4												4		4													4		4					
59				.1		.1	.2											4		4													4		4					
57				.2	.2	.1	.1	.1										7		7												7		7						
55			.1	.2	.2	.5												9		9												9		9						
53	.2			.2	.8	1.1	.1	.1										22		22												22		22						
51	.1	.1	1.3	1.3	1.4	.6	.2											40		40												40		40						
49	.2	.4	1.1	1.4	.4	1.0												37		37												37		37						
47	.2	.1	1.8	1.9	1.4	.2	.1											49		49												49		49						
45	.2	1.2	3.3	2.3	2.5	.8												87		87												87		87						
43	.4	1.1	3.3	4.4	1.2	.2												89		89												89		89						
41		1.9	3.9	1.9	1.6	.2												80		80												80		80						
39	.1	3.1	4.9	2.9	.6	.7												103		103												103		103						
37	.6	2.0	3.6	2.2	1.3	.1												82		82												82		82						
35	.6	3.7	3.7	1.6	.7	.1												87		87												87		87						
33	.6	2.0	2.2	.6	.5	.1												50		50												50		50						
31	.4	1.6	.8	.4	.8													33		33												33		33						
29		.8	.5	.6	.4													19		19												19		19						
27	.2	.7	.2	1.4														22		22												22		22						
25		.2	.4															5		5												5		5						
23		.1																1		1												1		1						
21																																								
19																																								
17			.5															4		4												4		4						
15		.1	.1															2		2												2		2						
13																																								
11																																								
9																																								
7																																								
5																																								
3																																								
1																																								
-1																																								
-3																																								
-5																																								
Element (X)		$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma^2$		No. Obs.		Mean No. of Hours with Temperature																												
Rel. Hum.												≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F																		
Dry Bulb																																								
Wet Bulb																																								
Dew Point																																								

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC  
AS 34

## PSYCHROMETRIC SUMMARY

4-1020  
STATION

USAN AB KO

STATION NAME

73-81

YEARS

MAR  
MONTH

PAGE 2

293a-1100

HOURS (L. S. T.)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122 STATION OSAN AB KO 73-81 YEARS MAR MONTH

PAGE 1 1200-1400 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL																										
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																								
72 / 71										.1								1	1																										
67 / 69									.1	.1								2	2																										
67 / 67			.1		.4				.1	.1								6	6																										
67 / 65			.1		.1	.1	.1	.1										5	5																										
64 / 63			.1	.1	.5	.4	.1	.6	.1	.1								17	17	1																									
62 / 61				.2	.2	.4	.1	.6	.6									18	18	2	1																								
57 / 59			.1	.1	.5	.6	1.6	1.0	.4									35	35	3	1																								
57 / 57		.1	.1	.6	.7	1.3	1.1	1.2	.4									46	46	3	2																								
57 / 55	.1			.1	1.9	1.9	1.1	.7										49	49	11	4																								
47 / 53	.2		.2	.6	2.9	.7	3.6	.4										72	72	15	3																								
27 / 51	.1	.2	.1	1.6	1.4	2.3	1.2	.1										59	59	15	5																								
57 / 49			.5	1.0	1.7	2.7	1.0	.2										53	53	21	5																								
47 / 47	.1	.1	.8	2.4	2.2	2.4	1.1	.1										77	77	62	10																								
47 / 45	.1	.7	2.2	3.2	4.2	3.3	1.7											123	123	87	12																								
47 / 43		.6	2.7	1.6	2.0	2.4												72	72	83	15																								
42 / 41		1.1	1.8	1.8	1.9	2.5												76	76	115	27																								
47 / 39		1.1	1.0	1.3	2.4	1.7												56	56	99	39																								
37 / 37		.5	.1	.2	1.2	.1												18	18	91	67																								
37 / 35		.1	.1	.4	1.2	.2												17	17	77	84																								
37 / 33		.1	.2	.5	.6													12	12	44	58																								
27 / 31		.2		.1	.5													7	7	44	45																								
27 / 29				.5	.1													5	5	24	65																								
27 / 27		.6																5	5	14	77																								
27 / 25																				16	59																								
27 / 23																				4	52																								
22 / 21		.1																1	1		39																								
27 / 19		.1	.4															4	4	1	30																								
27 / 17			.1															1	1	1	42																								
16 / 15																				3	20																								
14 / 13																				1	13																								
17 / 11																					21																								
7 / 9																					19																								
7 / 7																					10																								
7 / 5																					7																								
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ																								
Rel. Hum.																																													
Dry Bulb																																													
Wet Bulb																																													
Dew Point																																													
Mean No. of Hours with Temperature																																													
		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total																															

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

73-81

MAR

STATION

STATION NAME

**YEARS**

MONTH

PAGE 1 1500-1700

HOURS (L, S, T, J)	
L	1
S	1
T	1
J	1

[illegible]

## PSYCHROMETRIC SUMMARY

MAR  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)



## PSYCHROMETRIC SUMMARY

47122

OSAN AB KO

73-81

MAR

STATION

STATION NAME

YEARS.

MONTH

PAGE 1

1850-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
44 / 63						.2			.1									3	3													
42 / 61				.1	.1			.4	.2	.1								8	8													
40 / 59			.1		.4	.2		.1	.1									8	8													
38 / 57				.2	.4	.1	.7	.1	.1									14	14	2												
36 / 55	.1	.1			.1	.7	.8	.5	.1									21	21	3												
34 / 53	.2	.1	.2	.2	1.1	.8	.4	.1										27	27	10												
32 / 51		.1	.6	1.3	1.6	1.1	.2											41	41	8												
30 / 49			.3	1.9	2.2	1.1	.1											51	51	6												
28 / 47		.8	1.1	2.0	1.3	1.0		.1										53	53	31												
26 / 45		1.6	3.4	3.6	3.0	1.6	.1											110	110	57												
24 / 43		.6	4.2	4.8	1.9	.4												99	99	72												
22 / 41		2.0	4.7	3.5	2.4	.2												107	107	77												
20 / 39		1.8	3.1	4.2	.7	.1												83	83	101												
38 / 37	.5	1.0	2.2	4.1	.5													68	68	125												
36 / 35		1.3	1.8	3.1	.4													55	55	83												
34 / 33		.7	1.8	2.3	.4													43	43	89												
32 / 31		.4	.6	.7	.2													16	16	68												
30 / 29		.2	.6	.5														11	11	47												
28 / 27			.5	.2														6	6	26												
26 / 25			.1	.1														2	2	11												
24 / 23		.2	.5															6	6	7												
22 / 21			.4															3	3	6												
20 / 19																				3												
18 / 17																				3												
16 / 15																																
14 / 13																																
12 / 11																																
10 / 9																																
8 / 7																																
6 / 5																																
4 / -1																																
TOTAL	.8	11.1	126.8	33.5	16.6	8.0	1.9	1.0	.1									835	835	835												
																		835		835												

Element (X)	Σx <sup>1</sup>	Σx	̄x	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Ref. Num.	3235653	50519	60.5	14.657	835	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1589241	35931	43.0	7.188	835		4.9					93
Wet Bulb	1217916	31442	37.7	6.382	835		19.0					93
Dew Point	790842	24694	29.6	8.521	835	.1	57.2					93

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF Weather Service/MAC

# PSYCHROMETRIC SUMMARY

47122 STATION OSAN AB KO 73-81 YEARS MAR MONTH  
PAGE 1 2100-2300 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																	
2 / 61				.2																													2	2			
1 / 59				.1																													1	1			
5 / 57																																			2		
5 / 55	.4	.1		.2																													6	6	4	3	
4 / 53		.2	.2																														4	4	3	3	
2 / 51			.2	.1	.2	.2																											7	7		3	
5 / 49			.6	.4	.5	.1																											13	13	4		
4 / 47		1.2	1.1	1.1	.7																												34	34	3		
4 / 45	.1	2.3	3.3	2.7	1.1																												80	80	24	7	
4 / 43		1.8	3.7	2.2																													64	64	42	16	
2 / 41	.1	2.3	6.0	2.6	.5																												96	96	69	26	
4 / 39	.4	3.7	4.4	2.6	.4																												96	96	72	36	
3 / 37	.7	3.1	5.6	1.1																													88	88	99	43	
2 / 35	.2	5.0	6.0	3.3																													122	122	90	73	
3 / 33	.1	2.5	4.5	1.8																													75	75	130	74	
2 / 31	.5	1.3	3.0	1.1	.1																												50	50	90	66	
1 / 29	.5	2.5	1.4	1.3	.2																												50	50	93	92	
2 / 27	.8	1.2	1.0	.6																													30	30	52	116	
2 / 25		.5	.2	.1																													7	7	26	72	
2 / 23		.4	.2																														5	5	19	66	
2 / 21			.7																														6	6	5	41	
1 / 19			.1																														1	1	3	31	
1 / 17																																			6	17	
1 / 15																																			1	13	
1 / 13																																				6	
1 / 11																																				10	
1 / 9																																				7	
1 / 7																																				5	
1 / 5																																				4	
1 / 3																																				2	
1 / 1																																				2	
1 / -1																																				3	
TOTAL	3.828	142.4	21.6	3.7	.4																												837	837	837		
Element (X)	Σx²	Σx	Σ	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature																														
Rel. Num.	4356769	59273	70.8	13.804	837	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total																									
Dry Bulb	1255488	31982	38.2	6.325	837		16.6					93																									
Wet Bulb	1045408	29134	34.8	6.121	837		32.8					93																									
Dew Point	766887	24385	29.1	8.218	837	.3	61.4					93																									

USAFETAC 0-26-5 (OL A) REVISYD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

MAR

**MONTH**

ALL

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

471225      JSAN AB KO      73-81      MAR

STATION      STATION NAME      YEARS      MONTH

PAGE 2      ALL

HOURS (L, S, T, J)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
5 / 3																						29										
/ 1																						11										
/ -																						7										
- / -3																						1										
- / -5																						11										
TOTAL	5.728	9.24	9.16	5.10	7.7	5.3	5.1	6.5	.5	.2								6689	6689		6689											

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$s_x^2$	No. Obs.	Mean No. of Hours with Temperature						Total
						$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Rel. Hum.	31821762	443628	66.3	18.941	6689							
Dry Bulb	11237906	266994	39.9	9.318	6689		165.5	2.1				74
Wet Bulb	8782469	237155	35.5	7.481	6689		262.3					7
Dew Point	5933754	190024	28.4	8.948	6689	2.1	501.1					

## PSYCHROMETRIC SUMMARY

APR  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

APR

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1

0300-0500

NOV 15 1964  
NOV 15 1964

## PSYCHROMETRIC SUMMARY

47102  
STATION

GSAN AB KO

73-81

APR

PAGE 1

0600-0800  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122'  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

APR  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb Wet Bulb Dew Point						
6 / 75								.1												1		1		
4 / 73							.2	.1												3		3		
7 / 71						.1	.4	.1												6		6		
7 / 69				.1	.2		.1			.2										6		6		
6 / 67					.2	.2	.4	.1	.1											9		9		
6 / 65			.2	.9	.5	.5	.4	.2	.1											23		23		
4 / 63		.2	.4	1.2	.6	2.2	1.2	1.0	.5		.1									61		61	2	
7 / 61	.1	.2	1.2	1.5	1.7	1.5	.9	.2	.4											63		63	14	4
7 / 59		.2	.4	2.2	2.2	1.4	.9	.6	.1											65		65	20	1
5 / 57		.7	2.0	1.7	2.0	1.4	.5	.4												70		70	30	7
5 / 55	.6	1.2	.7	4.0	2.2	1.4	.9	.1	.1											91		91	56	30
4 / 53	.4	1.0	2.5	2.4	2.7	1.0	.7	.1												87		87	71	38
2 / 51	.4	1.0	3.0	2.0	1.9	.6	.6													76		77	83	37
5 / 49	.1	2.0	1.9	2.5	1.6	1.1	.1													75		75	109	38
4 / 47	.2	1.2	3.1	1.0	1.6	.9	.4													68		68	101	46
4 / 45	.2	1.7	1.6	1.1	1.0	.2														48		48	91	100
4 / 43	.1	.6	1.1	2.4	.2															36		36	87	71
2 / 41		.2	.2	.2	.1															7		7	54	78
4 / 39		.1	.9	.1																9		9	42	68
3 / 37			.1																	1		1	38	48
3 / 35																						6		70
3 / 33																						1		36
2 / 31																								41
1 / 29																								27
2 / 27																								33
2 / 25																								13
2 / 23																								8
2 / 21																								5
1 / 19																								3
1 / 17																								1
1 / 15																								1
1 / 11																								1
TOTAL	2.2	10.7	19.4	23.4	19.0	12.5	7.7	3.2	1.4	.4	.1									805		806	805	805
Element (X)	Σx'		Σx		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.	3413864		50638		62.9		16.859		805		± 0 F		± 32 F		± 67 F		± 73 F		± 80 F		± 93 F		Total	
Dry Bulb	2433609		43953		54.5		6.757		806						2.8		.4						90	
Wet Bulb	1895427		38773		48.2		5.893		805														90	
Dew Point	1422701		33165		41.2		8.371		805				14.9										90	

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122 OSAN AB KO

73-81

APR

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1200-1400

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																		TOTAL D.B. W.B.	TOTAL Dry Bulb Wet Bulb Dew Point
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
4 / 83																			.1														1	1		
5 / 81																			.1														1	1		
6 / 79														.1					.1	.1												4	4			
7 / 77													.1					.4	.4	.1												8	9			
8 / 75												.4	.4	.5	.1			.4	.1													15	15			
9 / 73								.2	.4	.6	.4	.7						.7														19	19			
10 / 71							.4	.6	1.0	.9	.7	.4	.1					.1														33	33			
11 / 69						.5	.9	1.1	1.1	.6	1.0	.2						.2														44	44			
12 / 67					.5	.7	1.6	.6	.6	.2	.1	.2						.2														38	38			
13 / 65			.1	.4	1.2	.7	.9	1.9	.9	.4	.2							.2														54	54			
14 / 63		.4	.2	.7	1.5	2.6	2.4	1.7	1.7	.7	.2							.2														99	99			
15 / 61		.7	.9	1.3	2.6	1.6	2.4	1.1	1.4	.1								.1														95	95			
16 / 59		.6	.5	1.6	2.2	3.7	1.2	1.5	.6	.1																						92	92			
17 / 57		.6	.4	1.2	1.2	1.5	.9	2.7	.2																							65	65			
18 / 55		.2	.7	1.9	1.1	.4	.7	.1	.1																							43	43			
19 / 53	.5	.9	1.5	.6	1.2	1.2	1.7	.4	.1																							66	66			
20 / 51	.1	1.0	1.1	.9	.5	2.1	1.7	.4																								57	57			
21 / 49		.5	.2	.6	.9	1.4	.4																									32	32			
22 / 47		.2	.5	.5	.5	.1	.4																									18	18			
23 / 45	.2	.9	.2	.1	.1	.2																										15	15			
24 / 43		.1		.5																												5	5			
25 / 41		.1	.1																													2	2			
26 / 39																																				
27 / 37																																				
28 / 35																																				
29 / 33																																				
30 / 31																																				
31 / 29																																				
32 / 27																																				
33 / 25																																				
34 / 23																																				
35 / 21																																				
36 / 19																																				
37 / 17																																				
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature						Total																			
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$																				
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

USAFETAC FORM 44 0-28-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

471220  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

APR  
MONTH

PAGE 2

1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
1 / 13																						1													
1 / 11																						1													
TOTAL	6.3	6.6	10.0	14.5	17.4	16.4	12.9	7.9	4.2	2.1	.6	.1						806			806														
																		806			806														

Element (X)	Σ X'	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2349223	40827	50.7	18.689	806	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	90
Dry Bulb	2996167	48767	60.5	7.520	806			18.2	5.4	.6		90
Wet Bulb	2103088	40883	50.7	6.071	806							90
Dew Point	1392687	32575	40.4	9.726	806		20.8					90



## PSYCHROMETRIC SUMMARY

4-1220  
STATION

CSAN AB NO

73-81

APR  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122 OSAN AB KO 73-81 APR  
STATION STATION NAME YEARS MONTH  
PAGE 1 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																		TOTAL D.B./W.B.	TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Dry Bulb	Wet Bulb	Dew Point			
79																				.1													1		1			
77																			.1														1		1			
75													.1			.1		.1														3		3				
73										.1	.2	.2						.1														6		6				
71											.6	.1	.2	.5	.1	.1																14		14				
69							.4	.4	.4	.1	.1	.1																				12		12				
67							.7	.9	.9	.1	.1	.2																				24		24				
65					.5	1.2	.7	.7	.5	.2	.1																					33		33				
63		.1	.4	1.1	2.7	1.5	.7	.7	.2	.2																						57	57	2				
61		.2	1.1	.5	1.6	1.5	1.2	.9	.1																							58	58	12				
59		.6	1.7	1.5	1.5	2.8	1.1	.6	.1																							75	75	31	4			
57	.2	1.3	.6	2.3	1.9	1.5	.7	.7	.2																							75	75	54	19			
55	.4	1.3	1.7	2.8	1.4	1.5	.7																									77	77	52	19			
53	1.1	.2	2.1	3.3	1.7	1.4	1.7	.4																								91	91	70	42			
51		.7	2.2	1.4	1.7	1.1	.9	.1																								60	60	79	36			
49		.4	2.3	.9	1.2	1.2	.4																									52	52	104	30			
47		.7	1.6	1.5	2.6	.6																										57	57	92	60			
45	1.1	2.6	1.6	2.5	.7																											69	69	78	84			
43		.4	.4	1.9	.4	.1																										25	25	64	62			
41			.7	.6	.2																											13	13	59	92			
39	.1	.5	.1																													6	6	57	43			
37																																			40	43		
35																																			14	50		
33																																		1	50			
31																																				35		
29																																				35		
27																																				54		
25																																				17		
23																																				22		
21																																				6		
19																																				5		
17																																				1		
TOTAL	1.7	6.7	17.3	20.0	20.3	16.1	9.8	4.6	1.6	1.5	.4	.1																				809	879	809	809			
Element (X)	Σ x'		Σ x		x̄		s <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature					Total																						
Rel. Hum.	3072510		47930		59.2		16.976		809		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total																					
Dry Bulb	2541676		44942		55.6		7.460		809				6.8	1.2	.1		90																					
Wet Bulb	1922377		39095		48.3		6.401		809								90																					
Dew Point	1391096		32744		40.5		9.024		809			19.5					90																					

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

73-81

APR  
MONTH

PAGE 1 2100-2300

HOURS 11 - 5 - 7.

## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

**ALL**  
**HOURS 1 L. 5.**

## PSYCHROMETRIC SUMMARY

APR  
MONTH

ALL

**ALL**  
HOURS (L. S. T.)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

USAFETAC FORM 11-14



## PSYCHROMETRIC SUMMARY

YEARS

MAY

3000-0200

HOURS (L - S - T)

## PSYCHROMETRIC SUMMARY

73-81

MAY  
MONTH

PAGE 1 0300-0500  
HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B., W.B.	Dry Bulb	Wet Bulb	Dew Point														
4 / 73				.4														3	3																
5 / 71							.1											1	1																
6 / 67			.4		.2	.1												6	6	3															
6 / 65			.7	.4	.1	.1												11	11	3	3														
4 / 62	.1	4.0	1.8	1.8	1.0	.5	.1											77	77	14	12														
7 / 61	.1	2.3	1.7	.7	.4		.4											46	46	35	17														
7 / 59	.1	4.2	3.7	2.8	.4	.1	.1											95	95	40	30														
3 / 57	.1	3.8	1.6	.4	.6	.1												55	55	70	41														
5 / 55	.7	4.3	3.6	1.8	.1													88	88	63	60														
4 / 53	.8	4.0	5.3	.7														90	90	95	70														
2 / 51	.6	4.1	3.0	1.3														75	75	84	80														
5 / 49	1.1	3.6	2.9	.6														68	68	119	63														
4 / 47	.2	5.0	2.4	.4														67	67	83	98														
4 / 45	1.3	4.9	3.4	.4	.1													84	84	79	117														
4 / 43	.4	1.3	2.2	.6														37	37	51	63														
2 / 41		1.7	2.0	.1														26	26	34	63														
4 / 39		.4	.2															5	5	33	35														
7 / 37	.1																	1	1	17	33														
3 / 35																				2	17														
3 / 33																					22														
2 / 31																					7														
1 / 29																					4														
TOTAL	5.742	8.34	7.12	2.2	2.9	1.0	.7												835	835		835													
																		835		835															

Element (X)	Σ x'	Σ x	Σ	Σ²	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5679998	68256	81.7	10.977	835	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2440845	44807	53.7	6.611	835			1.1	.3			93
Wet Bulb	2184624	42384	50.8	6.313	835			.3				93
Dew Point	1968971	40111	48.0	7.109	835		1.2					93

## PSYCHROMETRIC SUMMARY

MAY  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

MAY  
MONTH

PAGE 1 0900-1100

[illegible]

## PSYCHROMETRIC SUMMARY

**MAY**  
**MONTH**

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
8 / 87													.1					1	1						
6 / 85								.1		.2	.4					.1		7	7						
4 / 83									.6	.1	.4	.4	.2	.1				15	15						
2 / 81						.1	.7	1.3	1.0	.2	.5	.6	.5					41	41						
0 / 79					.2	.6	1.6	.6	1.1	.5	.4	.1						42	42						
7 / 77					1.2	1.2	1.1	1.8	.6	1.0	.4	.1						61	61						
6 / 75				.5	1.9	2.1	2.8	1.3	.2	.8	.1							81	81						
4 / 73			.4	.5	.5	2.5	1.8	1.4	.6	.5								68	68	1					
2 / 71				.1	1.4	1.3	2.1	2.1	1.0	1.2	.5							80	80	2					
0 / 69			.7	.5	.7	2.1	1.8	2.1	1.2	1.0	.5							87	87	13					
5 / 67			.2	.6	.7	1.1	1.2	1.0	1.0	.5								52	52	39	1				
6 / 65		.4	.8	.7	1.3	.7	2.3	1.2	.8	.1	.1							71	71	68	3				
4 / 63	.1	.1	1.6	2.1	1.6	1.3	.8	1.9	.7	.1								86	86	67	31				
2 / 61		.7	.8	1.3	1.3	.7	1.3	.4										55	55	114	31				
0 / 59		.8	1.3	1.8	1.2	.5	.4											50	50	119	62				
5 / 57		.7	.5	.6	.2	.1	.1											19	19	106	52				
5 / 55	.4	.2	.4	.1		.4												12	12	106	71				
4 / 53																				75	71				
2 / 51			.1															1	1	65	83				
5 / 49																				35	56				
3 / 47																				15	59				
4 / 45																				4	85				
4 / 43																					40				
2 / 41																					38				
4 / 39																					39				
3 / 37																					30				
7 / 35																					23				
3 / 33																					28				
2 / 31																					8				
0 / 29																					10				
2 / 27																					6				
1 / 25																					1				
2 / 21																					1				
Element (X)	Σ X <sup>2</sup>		Σ X		X		C <sub>X</sub>		No. Obs.		Mean No. of Hours with Temperature										Total				
Rel. Hum.											≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F				
Dry Bulb																									
Wet Bulb																									
Dew Point																									



## PSYCHROMETRIC SUMMARY

MAY  
MONTH

PAGE 1 1500-1700  
HOURS (L S T)

## PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

MAY  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OLA)

**USAFETAC**



## PSYCHROMETRIC SUMMARY

73-81

54 Y

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1 1800-2000

HOURS (M - S - T - J)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

4712 CSAN AB KO 73-81 MAY  
STATION STATION NAME YEARS MONTH  
PAGE 1 2122-2300  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B. Dry Bulb	Wet Bulb Dew Point					
67/75											.1	.2				.1																	4	4					
47/73						.5	.1				.1	.5																					12	12					
71				.1	.4	.2	.7	.5																									16	16					
59				1.0	.6	1.2	.7	.9	.2	.1																							37	37					
67			1.2	.6	.8	.5	.6	.4		.1																							35	35	6				
65	.2	1.2	1.8	1.8	1.1	1.1	.5	.1	.1																								66	66	26	4			
47/63		1.8	3.3	3.6	2.3	2.6	.5	.2	.2																								122	122	39	28			
57/61	.4	1.9	2.6	3.5	3.8	.7	.5	.2																									114	114	63	27			
59		1.0	4.1	4.3	1.1	.6	.8	.1																									100	100	76	46			
57		1.4	3.1	2.9	1.8	.8																												84	84	77	57		
55	.4	2.5	2.2	3.9	1.3	.7	.2																											94	94	127	61		
47/53	.6	1.3	2.2	2.7	1.4	.2	.1																											72	72	125	63		
27/51		1.0	3.2	2.0	.1	.1																												54	54	68	99		
57/49			.5	.5																															8	8	101	72	
71/47		.5	.2	.8	.1																													14	14	66	82		
47/45		.1	.2	.2	.1																													6	6	41	110		
47/43																																					12	51	
27/41			.1																																1	1	8	44	
57/39																																						1	25
37/37																																						1	28
71/35																																							23
37/33																																							3
27/31																																							4
71/29																																							8
71/27																																							2
TOTAL	1.0	12.7	25.8	28.3	15.3	9.1	5.3	1.3	.6	.1																								837	837	837			

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	4225465	58290	69.6	14.094	837	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$
Dry Bulb	3340077	50203	60.0	5.881	837			11.3	1.6		93
Wet Bulb	2505563	45557	54.4	5.571	837			.7			93
Dew Point	2096834	41434	49.5	7.396	837		1.6				93

REPLACES PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-3 (OL A)

USAFETAC

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

40122 OSAN AB KO 73-81 MAY  
STATION STATION NAME YEARS MONTH

PAGE 1 ALL  
HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																		TOTAL		TOTAL	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B.-W.B.		Dry Bulb	Wet Bulb	Dew Point	
89																																		3	3			
87																																		3	3			
85																																		23	23			
83																																		43	43			
81																																		98	98			
79																																		110	110			
77																																		181	181			
75																																		235	235			
73																																		236	236	1		
71																																		334	334	6		
69																																		349	349	48		
67																																		302	302	139	5	
65																																		415	415	252	36	
63																																		764	764	366	192	
61																																		576	577	556	191	
59																																		629	629	658	342	
57																																		473	473	737	444	
55																																		498	498	821	494	
53																																		397	397	770	603	
51																																		306	306	671	682	
49																																		191	191	617	540	
47																																		169	169	397	613	
45																																		202	202	290	789	
43																																		70	70	136	428	
41																																		46	46	104	398	
39																																		9	9	63	278	
37																																		4	4	30	209	
35																																				2	179	
33																																				2	107	
31																																					52	
29																																					48	
27																																					23	
25																																					7	
23																																					2	
Element (X)	$\Sigma X^2$		$\Sigma X$		$\bar{X}$		$\sigma^2$		No. Obs.		Mean No. of Hours with Temperature							Total																				
Rel. Hum.											$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$																						
Dry Bulb																																						
Wet Bulb																																						
Dew Point																																						

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

**MAY**  
**MONTH**

ALL  
HOURS U. S. T.

## PSYCHROMETRIC SUMMARY

**JUN**  
**MONTH**

PAGE 1 0000-0200  
HOURS IL. S. T.

## PSYCHROMETRIC SUMMARY

JUN  
MONTH

0300-0300  
HOURS (L. S. T.)

**USAFETAC**

## PSYCHROMETRIC SUMMARY

73-81

JUN

PAGE 1 0600-0800  
HOURS (L. S. T.)

## PSYCHROMETRIC SUMMARY

4712  
STATION

CSAN AB KO

STATION NAME

73-81

**YEARS**

**JUN**  
**MONTH**

PAGE 1

C900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
47/82								.1			.1							2	2													
47/81			.6		.2	.2	1.2	.6	.1	.2								27	27													
79/79	.1		.9	.7	.6	2.0	1.0	.6	.2	.2	.1							53	53	1	1											
77/77	.2		.7	.9	2.5	2.1	2.1	.9	.2									78	78	7	4											
75/75	.1	.5	1.6	1.5	2.3	2.1	1.4		.2	.1								80	80	8												
73/73	.1	1.9	.6	5.3	4.7	2.3	2.5	.4	.2									146	146	31	9											
71/71	.1	2.2	3.8	5.2	4.3	1.6	1.2	.5	.1									155	155	47	36											
69/69	.2	.5	4.7	2.6	2.6	1.5	.2	.1										101	101	93	36											
67/67		.2	3.3	2.2	1.4	.6	.1											64	64	134	40											
65/65	.1	.9	2.5	2.5	.7	.2	.1											58	58	148	73											
63/63		1.0	1.1	1.1	.1	.1												28	28	129	139											
61/61		.1	.6	.6	.2													13	13	108	120											
59/59				.1	.1													2	2	61	112											
57/57				.1	.1													2	2	28	73											
55/55																				7	61											
53/53																				6	40											
51/51																				1	26											
49/49																					11											
47/47																					10											
45/45																					12											
43/43																					2											
TOTAL	1.1	7.3	20.6	22.9	27.0	12.9	9.9	3.2	1.2	.6	.2								809	809	809											
																			809	809												



## PSYCHROMETRIC SUMMARY

4-102                      OSAN AB KO  
STATION

73-81

**JUN**  
**MONTH**

PAGE 1 1200-1400

**HOURS 11-5-7**

[illegible]

## PSYCHROMETRIC SUMMARY

471220 GSAN AB KO

73-81

JUN

PAGE 1 1500-1700  
HOURS 11:50-1:10

[illegible]

## PSYCHROMETRIC SUMMARY

JUN  
MONTH

2000 250  
HOURS (L, S, T)

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

JUN

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
✓ 81		.2	.6	.4	.1													11	11															
✓ 79			.6	.1	.2													9	9	2	2													
7 / 77			1.0	.1		.1	.1											11	11	5	1													
6 / 75		1.5	.7	1.5	1.0	.6	.2											45	45	8	8													
4 / 73	.7	2.6	1.0	3.6	1.5	.9	.6	.2										90	90	28	22													
✓ 71	.6	.7	5.2	3.6	2.6	.2	.4	.1										109	109	40	23													
✓ 69	.1	1.1	8.3	4.3	2.2	.9	.4											140	140	29	25													
6 / 67	.5	.6	7.2	2.2	2.8	.6	.4											116	116	110	25													
6 / 65	.2	2.5	8.0	2.3	1.2	.5												120	120	133	69													
4 / 63		3.3	5.3	3.0	.6	.4												102	102	156	137													
2 / 61		1.0	1.9	1.4	.4													37	37	134	146													
✓ 59		.2	.9	.5	.1													14	14	91	127													
5 / 57			.4	.2														5	5	45	81													
5 / 55																				17	65													
4 / 53																				8	30													
2 / 51																				3	20													
5 / 49																					9													
✓ 47																					15													
4 / 45																					4													
TOTAL	2.2	13.8	41.0	23.2	12.9	4.3	2.1	.4										809	809	809	809													

Element (X)	Σ x'	Σ x	Σ	Σ <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4908022	62424	77.2	10.628	809	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	3842752	55648	68.8	4.300	809			59.1	18.5	1.2		90
Wet Bulb	3348952	51920	64.2	4.564	809			24.7	4.8	.2		90
Dew Point	3054591	49495	61.2	5.723	809			11.8	3.7			90



## PSYCHROMETRIC SUMMARY

     JUL       
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point														
8 / 97								.1										1	1																
6 / 85							.1											1	1																
4 / 73				.1		.1	.1											3	3																
2 / 61		.7	2.4	3.0	.6	.2												58	58	1	1														
0 / 49			3.1	5.0	.4													71	71	5	5														
7 / 77	.2	3.4	6.2	3.1	.4													111	111	27	9														
6 / 75	.8	7.2	6.4	3.1	.2													148	148	111	68														
4 / 73	1.1	4.7	4.0	3.6	.4													114	114	150	125														
2 / 71	1.2	5.5	4.6	2.3	.2													115	115	146	113														
0 / 69	.7	4.7	7.0	1.4	.2													117	117	109	147														
6 / 67	.2	.2	5.0	.1														47	47	125	76														
6 / 65	.1	.8	.5	.5		.1												17	17	92	101														
4 / 63		.4	1.3	.1	.1													16	16	27	108														
2 / 61			.4	.5														7	7	14	31														
0 / 59			.5															4	4	10	18														
6 / 57			.2															2	2	6	13														
5 / 55																				7	4														
4 / 53																				2	6														
2 / 51																					5														
0 / 49																					2														
TOTAL	4.4	27.6	41.6	23.0	2.5	.5	.2	.1										832	832	832	832														

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_X$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5951944	70062	84.2	7.917	832	$\leq 0^\circ\text{F}$	$\leq 32^\circ\text{F}$	$\leq 67^\circ\text{F}$	$\leq 73^\circ\text{F}$	$\leq 80^\circ\text{F}$	$\leq 93^\circ\text{F}$	
Dry Bulb	4529439	61271	73.6	4.557	832			87.9	56.7	9.9		93
Wet Bulb	4133952	58530	70.3	4.449	832			75.3	32.9	.7		93
Dew Point	3933526	57060	68.6	4.937	832			60.8	23.3	.1		93

## PSYCHROMETRIC SUMMARY

YEARS

JUL  
MONTH

0300-0500  
HOURS S T

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B. W.B. Dry Bulb	Wet Bulb	Dew Point				
4 / 93		.1				.1	.2											4	4					
7 / 81		.5	1.1	.8														20	20	2				
7 / 79		.5	2.4	4.3	.1													61	61	3				
7 / 77	.1	1.2	7.2	3.1	.1													98	98	15				
6 / 75	1.4	4.8	7.8	1.9														133	133	77				
4 / 73	2.6	5.4	3.1	3.5	.5													126	126	138				
7 / 71	1.5	4.8	5.7	2.6	.1													123	123	167				
7 / 69	.2	4.0	6.3	.5														107	107	99				
6 / 67	.6	2.0	4.3	.1	.1													60	67	141				
6 / 65	.4	3.6	2.0	.6														55	55	93				
4 / 63		1.8	.8	.1														23	23	44				
7 / 61		.5	.2	.1														7	7	22				
7 / 59		.1	1.2															11	11	13				
5 / 57			.4															3	3	7				
5 / 55																				7				
4 / 53																				3				
2 / 51																								
TOTAL	9.929	44.2	61.7	8	1.0	.1	.2											831	831	831				
																		831	831					

Element (X)	Σ X'	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	6201328	71530	86.0	7.715	831	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	4383579	60233	72.5	4.623	831			81.9	49.5	4.7		93
Wet Bulb	4045975	57865	69.6	4.471	831			71.8	26.3	.6		93
Dew Point	3870725	56571	68.1	4.860	831			57.6	18.4	.2		93

## PSYCHROMETRIC SUMMARY

73-81

**JUL**  
**MON**

PAGE 1 0600-0800  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point														
6 / 85									.2									2		2															
5 / 83			.1	.1	.4			.2										7		7															
4 / 81			.6	2.0	1.9	1.2	.5											52	52	1	1														
3 / 79			.6	1.9	4.9	.7												68	68	7	6														
2 / 77	.2	2.4	5.4	4.7	.4													103	103	33	19														
1 / 75	1.1	5.2	6.4	4.4	.2													143	143	72	47														
4 / 73	1.4	3.5	3.6	3.8	.5	.1	.1											109	109	155	83														
3 / 71	1.4	4.6	5.6	2.6	.4	.1												123	123	135	125														
2 / 69	1.6	3.0	7.1	.2	.5	.1												104	104	124	157														
1 / 67	.4	1.6	2.6	.2	.4													43	43	136	84														
6 / 65	.4	2.9	1.1	.5														40	40	82	105														
4 / 63		1.3	.6	.5	.1													21	21	37	113														
3 / 61		.2	.5	.4														9	9	22	38														
2 / 59			1.1															9	9	12	18														
1 / 57			.1															1	1	8	7														
5 / 55																				9	18														
4 / 53																				1	7														
2 / 51																					6														
TOTAL	6.425	9.38	123.9	4.3	1.1	.4												834		934	834														

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5929178	69954	83.9	8.599	834	$\leq 0^\circ\text{F}$	$\leq 32^\circ\text{F}$	$\leq 67^\circ\text{F}$	$\leq 73^\circ\text{F}$	$\leq 80^\circ\text{F}$	$\leq 93^\circ\text{F}$	
Dry Bulb	4501843	61141	73.3	4.846	834			84.1	54.0	9.7		93
Wet Bulb	4095494	58318	69.9	4.593	834			73.9	29.9	.8		93
Dew Point	3889925	56801	68.1	5.068	834			58.2	17.4	.1		93

USAFETAC  
FORM  
AF 44  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE





## PSYCHROMETRIC SUMMARY

471227  
STATION

OSAN AB NO

73-81

JUL  
MONTH

PAGE 1

1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
67/95							.1	.1		.5								6	6													
47/93					.2			.4	.3	.7								18	18													
77/91				.5	1.2	.8	1.2	1.4										43	43													
77/89				1.3	1.1	1.3	4.1		.1									66	66													
87/87			.2	1.3	2.4	3.8	.6											70	70													
67/85			.1	.2	1.0	4.0	2.2	.4	.1									66	66	4												
47/83	.2		.6	1.6	2.2	1.9	2.5	.6										80	80	8	6											
77/81		.6	.4	4.3	4.2	3.8	4.3	1.1	.1									157	157	28	3											
77/79	.2	.4	1.3	4.0	1.2	2.6	.2	.4										86	86	53	27											
77/77	.2	1.6	2.2	3.4	2.5	1.0	.7	.2										98	98	122	41											
76/75	.1	1.8	2.2	2.9	1.0	.2	.2											70	70	167	75											
47/73		.2	1.2	1.7	.1	.4												30	30	144	96											
77/71		.6	1.4	.6	.2	.1												25	25	110	159											
77/69			.6		.2	.5												11	11	105	119											
67/67			.1			.1												2	2	53	81											
67/65																				18	92											
47/63			.2															2	2	9	83											
77/61			.1															1	1	2	16											
77/59			.4															3	3	8	17											
57/57																					7											
57/55																				3	4											
47/53																					6											
27/51																					2											
TOTAL	.8	5.2	11.0	18.6	15.9	19.3	16.3	9.0	2.5	1.3								834	834		834											
																			</													

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122 OSAN AB KO

73-81

JUL  
MONTH

PAGE 1 1500-1700

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31																			
6/ 97							.1																										1	1		
6/ 95						.1	1.0		.4	.5	.1																						17	17		
4/ 93					.1	.4	.8	.8	.8	1.6																							38	38		
4/ 91				.5	1.4	.7	1.8	1.1	.2																								48	48		
7/ 89				.6	.6	1.8	3.1	.4																									54	54		
8/ 87				1.3	2.8	4.1	.7	.2	.1																								81	81		
6/ 85				.1	1.4	3.0	1.8	.7																									59	59		
4/ 83		.2	.4	1.4	2.2	1.3	2.4	1.7	.1	.1																							82	82		
7/ 81		.5	.4	5.5	5.9	3.7	4.3	1.3	.1																								181	181		
7/ 79		.2	1.1	5.3	1.6	2.8	.6	.5	.1																								101	101		
7/ 77	.2	1.3	1.2	1.9	1.3	.5	.4	.1																									58	58		
7/ 75	.1	.7	1.7	2.3	.7	.2																											48	48		
4/ 73	.2	1.0	1.1	.7	.1																												26	26		
7/ 71		.5	.8	.4	.5	.1																											19	19		
7/ 69			1.7		.1	.4																											12	12		
6/ 67		.1																															1	1		
6/ 65																																		18	18	
4/ 63					.1																												1	1		
7/ 61			.4																														3	3		
7/ 59			.2																														2	2		
7/ 57																																		5	5	
5/ 55																																		1	1	
4/ 53																																			2	2
2/ 51																																			3	3
TOTAL	.6	4.6	8.2	17.7	16.9	17.3	18.0	10.8	3.2	2.5	.1																						832	832		

Element (X)	Z <sub>1</sub>	Z <sub>2</sub>	X	C <sub>1</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3784539	55187	66.3	12.2	13	832	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F
Dry Bulb	5743736	68942	82.9	6.1	104	832			92.3	88.8	68.2	6.3
Wet Bulb	4588561	61683	74.1	4.3	18	832			89.4	63.9	8.0	
Dew Point	4110271	58327	70.1	5.0	61	832			70.3	31.0	1.7	

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122 CSAN AB KO 73-81 JUL 1800-2000  
STATION MONTH YEARS  
PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point					
6 / 95							.1		.1	.1											3		3		
4 / 93							.1	.1	.2	.1	.1										6		6		
/ 91					.4	.1	.4	.7	.6												18		18		
/ 89						.6	1.0	1.3													24		24		
8 / 87				.4	.8	2.5	1.4		.2												45		45		
6 / 85			.2	.4	2.0	1.8	.8														44		44		
4 / 83		.1	.1	2.2	3.0	1.3	1.8	.5													75		75	10	
/ 81		.4	1.0	4.6	5.4	3.4	1.4	.4	.5												141		141	7	11
/ 79	.1	.5	1.9	6.9	3.0	2.9	.5	.1													132		132	47	8
7 / 77	.1	1.4	4.9	4.5	2.3	.8		.1													118		118	93	39
6 / 75	.1	1.2	3.5	3.7	1.6	.4	.2														89		89	167	83
4 / 73		1.9	.4	2.5	.8	.2															49		49	146	115
/ 71		1.1	1.9	1.0	.8																40		40	131	138
/ 69		1.0	2.4	.1	.5	.1															34		34	95	128
6 / 67			.1		.4	.2															6		6	71	86
6 / 65																								38	79
4 / 63																								9	88
2 / 61																								4	21
/ 59			.7																		6		6	4	7
5 / 57																								7	10
5 / 55																								1	13
4 / 53																									1
2 / 51																									2
5 / 49																									1
TOTAL	.4	7.6	17.2	26.1	21.1	14.6	7.8	3.4	1.6	.2											830		830		830

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4447476	60036	72.3	11.246	830	≥ 0 F	≥ 32 F	≥ 47 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	5283364	66052	79.6	5.696	830			92.3	83.4	46.9	1.0	93
Wet Bulb	4422874	60478	72.9	4.413	830			85.9	52.7	3.7		93
Dew Point	4046197	57801	69.6	5.027	830			68.1	28.7	1.2		93

USAFETAC FORM 0-26-5 (OL A) 1-64 REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

471725  
STATION

OSAN AB KO

73-81

JUL

PAGE 1 2100-2300  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

47122                      OSAN AB KO  
STATION

73-81

JUL  
MONTH

STATION

STATION NAME

YEARS

PAGE 1

All 6

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

47122  
STATION

CSAN AB KO

73-81

AUG

MONTH

PAGE 1

0000-0200

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
6 / 85							.1											1	1													
4 / 83																		4	4													
1 / 81			.7			.5	.2											18	18													
1 / 79			1.0	2.6	3.2	.5												61	61	9	6											
7 / 77	.4	5.8	9.7	4.3	.4	.1												172	172	23	21											
6 / 75	2.7	5.9	4.6	1.2	.1													115	115	115	71											
14 / 73	2.6	6.2	2.8	1.7	.4													114	114	162	133											
2 / 71	.2	3.7	3.6	1.4	.6													80	80	137	120											
7 / 69	.4	2.9	6.5	1.2	.4													94	94	77	121											
2 / 67	.1	.8	3.5	1.3	.2													50	50	88	48											
6 / 65	.2	3.6	2.5	.8														60	60	83	74											
4 / 63	.7	4.0	1.4	.1	.1													53	53	74	113											
2 / 61		.2	.5															6	6	48	60											
1 / 59			.2	.1														3	3	6	39											
1 / 57			.2															2	2	5	15											
5 / 55																				3	6											
4 / 53																				3	2											
2 / 51																					1											
5 / 49																					3											
TOTAL	6.7	34.8	38.2	16.3	3.4	.5	.1											833	833	833	833											
							</																									

## PSYCHROMETRIC SUMMARY

73-81

YEARS

AUG  
MONTH

PAGE 1 0300-0500  
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
71/61			.4		.4	.7												12	12				
71/79			.5	2.2	2.4	.2												44	44	4	3		
70/77		.2	4.9	5.9	3.7													123	123	8	8		
76/75	1.1	7.1	4.6	.6	.2													113	113	90	56		
41/73	2.9	7.4	3.2	1.4														125	125	149	107		
72/71	2.5	4.8	3.2	1.3	.1		.1											101	101	154	151		
71/69	1.3	2.6	5.0	.6			.1											81	81	94	121		
66/67	.6	1.1	5.7	.7	.5													66	66	82	61		
61/65	.6	3.6	1.4	.2														49	49	81	65		
41/63	.7	7.3	3.1															93	93	58	117		
21/61		1.2	.4															13	13	76	44		
71/59		.7	.2															8	8	21	62		
71/57		.1	.2															3	3	10	21		
51/55		.2	.1															3	3	2	10		
41/53			.1															1	1	4	3		
21/51																				2	4		
51/45																					1		
71/47																					1		
TOTAL	9.941	9.34	7.11	4	1.8	.1	.1											835	835	835	835		





## PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB KO

73-81

AUG  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
1/ 93										.1								1	1																
/ 91							.1	.2	.1									4	4																
/ 89					.1	.4		.1										5	5																
8/ 87					1.0	1.3	.5											23	23																
6/ 85			.2	.7	1.3	1.3	.2											32	32																
4/ 83		.2	.7	4.2	2.2	1.8	.1	.1	.1									79	79																
/ 81		.1	3.1	3.1	4.9	2.4	1.3		.1									167	167	5	1														
/ 79		1.2	3.9	6.4	1.0	2.4	.5	.1	.1									129	129	35	6														
7 / 77		2.5	2.5	3.0	2.5	1.0	.6	.2	.1									104	104	108	43														
16/ 75	.7	1.3	2.7	2.8	1.6	1.2	.4	.4										86	86	176	108														
14/ 73		1.4	1.4	2.0	2.0	.6	.5											67	67	145	110														
11/ 71		1.2	3.9	2.7	1.8	.6												79	79	64	155														
/ 69		.7	1.6	.8	.4	.1												30	30	99	81														
11/ 67	.1	.1	1.4	.2	.2													18	18	79	71														
16/ 65			.4	.4														6	6	55	68														
14/ 63																				39	74														
2/ 61																				24	42														
/ 59																				1	30														
5 / 57																					20														
5 / 55																					13														
4/ 53																					5														
2/ 51																					3														
TOTAL	.3	8.9	21.2	30.7	19.0	13.1	4.2	1.2	.6	.1								830	830	830															
																		830		830															

## PSYCHROMETRIC SUMMARY

4-122  
STATION

OSAN AB KO

73-81

AUG

MONTH

PAGE 1

1200-1400

HOURS 1L, S, T, I

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

AUG  
MONTH

PAGE 1 1800-2000  
HOURS 11-5-7-11

[illegible]

## PSYCHROMETRIC SUMMARY

4-122      OSAN AB KO  
STATION

73-81

AUG  
MONTH

PAGE 1 2100-2300  
HOURS (11, 2, 7)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
8 / 87							.4											3	3			
6 / 85							.1											1	1			
4 / 83				.7														6	6			
2 / 81		.6	1.6	2.2	.8	.4	.2											48	48			
0 / 79	.1	1.6	5.8	8.2	.8	.2												139	140	13	6	
7 / 77	.4	6.5	9.2	5.5	.8													187	187	43	31	
6 / 75	1.2	3.1	3.8	3.1	.7	.4												103	103	178	110	
4 / 73	1.4	3.5	2.6	2.8		.1												87	87	155	130	
2 / 71	.6	1.2	4.1	3.5	1.7													92	92	107	124	
0 / 69	.1	2.3	5.8	1.1	1.0	.1												86	86	78	91	
6 / 67	.1	.7	2.9	.8	.2													40	40	101	62	
6 / 65		1.6	1.6	.2	.1													29	29	91	81	
4 / 63	.1	.5	.5	.2														11	11	46	118	
2 / 61			.1															1	1	12	40	
0 / 59																				5	24	
0 / 57																				4	10	
5 / 55																					3	
4 / 53																					1	
2 / 51																					2	
TOTAL	4.1	21.5	37.9	28.3	6.2	1.2	.7												833	834		833
																		833		833		

Element (X)	Σ x'	Σ x	Σ	σ <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5733599	68731	82.5	8.673	833	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	4699232	62490	74.9	4.515	834			88.4	64.1	15.1		93
Wet Bulb	4232427	59259	71.1	4.492	833			75.4	43.4	.6		93
Dew Point	4011316	57652	69.2	5.050	833			61.9	30.9			93

## PSYCHROMETRIC SUMMARY

AUG  
MONTH

ALL

ALL  
HOURS 11 5 7

[illegible]

## PSYCHROMETRIC SUMMARY

47172  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

**SEP**  
**MONTH**

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

SEP  
MONTH

0300-0500

HOURS 11 - 5 - T

[illegible]

## PSYCHROMETRIC SUMMARY

47122                      OSAN AB KO  
STATION

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

**MOBILE (L. S. T.)**

[illegible]

## PSYCHROMETRIC SUMMARY

47122 OSAN AB KO

73-81

SEP

STATION

STATION NAME

**YEARS**

SEP  
MONTH

PAGE 1

0900-1100

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
-8 / 87						.4												3	3														
-4 / 83				.6		.1												6	6														
0 / 81				.4	.6	.4	.4											14	14														
4 / 79			.6	1.3	.4	.7	.1	.1										24	24														
7 / 77		.2	.4	1.4	1.6	.9	.5	.1										41	41	9	1												
6 / 75		.6	1.5	2.6	3.1	1.5	.7	.4	.1									85	85	11	12												
4 / 73	.1	1.2	1.1	5.1	2.6	1.9	.4	.2										102	102	29	9												
0 / 71	.4	1.7	2.7	4.0	3.2	1.9	.6		.1									118	118	52	36												
0 / 69		.9	4.8	2.2	2.6	2.1	.2	.2										106	106	69	35												
6 / 67		.9	5.2	1.5	2.2	.7	.4	.1										89	89	95	40												
6 / 65	.2	2.2	2.1	2.5	1.4	.7	.1											75	75	126	54												
-4 / 63	.1	1.0	2.7	2.7	1.1	.2	.1	.1										66	66	134	169												
0 / 61	.5	.6	1.2	1.2	.1	.1	.2											33	33	77	84												
0 / 59	.1	.5	.9	.4	.4		.1											19	19	91	75												
6 / 57	.1	.2	1.1			.1												13	13	53	83												
5 / 55	.1	.1	.1		.1	.1												5	5	31	64												
4 / 53		.1	.2	.1														4	4	9	53												
-2 / 51		.1	.2	.1														4	4	7	38												
5 / 49																				9	17												
4 / 47																				5	13												
4 / 45																					9												
4 / 43																					4												
-2 / 41																					4												
4 / 39																					1												
3 / 37																					3												
3 / 35																					3												
TOTAL	1.7	10.5	25.0	25.8	19.5	11.9	4.0	1.4	.2									807	807	807	807												
																		807		807													

## PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

SEP  
MONTH

PAGE 1

1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.S./W.B.	Dry Bulb	Wet Bulb	Dew Point										
89						.5	.1											5	5												
87					.5	.5	.1											9	9												
85			.1	.1	.1	.4	.2	.1	.1									10	10												
83				.1	.4	.9	.2	.2	.6									20	20	1											
81				1.2	1.6	1.6	2.8	1.5	1.1	.4								83	83	1	1										
79			.7	1.1	1.6	4.3	3.3	2.3	.6	.1	.1							116	116	8	1										
77		.1	1.0	.5	2.5	4.9	4.1	2.8	1.1	.2								140	140	12	5										
75		1.4	.5	1.6	3.6	4.1	2.5	2.6	.7	.4								140	140	27	15										
73		.2	.9	2.1	1.0	2.5	2.3	1.6	.5	.1								91	91	55	24										
71		.1	.7	1.4	1.0	2.5	2.8	1.0	1.0	.1								86	86	36	28										
69		.4	1.0	.5	1.7	.9	1.6	.6										48	48	119	35										
67		.1		.1	.7	.5	.6	.1	.1									19	19	138	38										
65	.1	.2	.5	.4	.4	.1	.1	.2	.1									18	18	110	41										
63		.5	.5	.5	.1		.2	.4										18	19	89	127										
61				.1			.1	.1										3	3	89	84										
59					.4													3	3	59	107										
57																				37	62										
55																				12	52										
53																				7	52										
51																					4	37									
49																				5	28										
47																						20									
45																						25									
43																						9									
41																						5									
39																						4									
37																						4									
35																						5									
TOTAL	.1	3.1	5.9	9.8	14.8	23.6	21.4	13.7	6.1	1.4	.1							809	810	809	809										
Element (X)	Σ X'			Σ X			X̄			s <sub>x</sub>			No. Obs.			Mean No. of Hours with Temperature															
Rel. Hum.	2973058			47808			59.1			13.526			809			≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total			
Dry Bulb	4657699			61289			75.7			5.002			810							85.2		68.2		20.2				90			
Wet Bulb	3552821			53429			66.0			5.472			809							44.2		11.6		.8				90			
Dew Point	2943442			48390			59.8			7.946			809							16.4		5.1		.1				90			

## PSYCHROMETRIC SUMMARY

47122-  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

SEP  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

SEP  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB KO

73-81

SEP  
MONTH

PAGE 1      2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point						
79 / 79		.2	.1															3	3								
78 / 77		.5	.6	.5														13	13	3	3						
76 / 75	.4	1.4	1.4	1.2	.2	.1												38	38	8	7						
74 / 73	.1	.7	1.5	1.6	.5	.1												37	37	17	14						
72 / 71	.6	1.1	2.7	1.1	.5													49	49	28	14						
70 / 69	.2	2.5	8.4	.5	.9		.1											102	102	37	29						
68 / 67		1.2	5.7	1.2	.7	.2												74	74	74	30						
66 / 65	.1	5.8	4.3	2.2	.2	.1												104	104	118	51						
64 / 63	1.5	8.3	4.4	2.8	.7	.2												146	146	111	153						
62 / 61	.1	3.1	3.2	1.1														61	61	110	107						
60 / 59		2.8	3.7	1.7	.2													69	69	62	92						
58 / 57	.2	1.7	3.0	.6														45	45	79	62						
56 / 55	.2	1.2	2.0	1.0	.1													37	37	59	72						
54 / 53	.1	.4	1.0	.2														14	14	42	39						
52 / 51	.1	.4	.7															10	10	28	48						
50 / 49			.2		.2													4	4	20	37						
48 / 47		.1																1	1	8	20						
46 / 45	.2																	2	2	3	21						
44 / 43	.1																	1	1	3	6						
42 / 41																					3						
40 / 39																					2						
TOTAL	4.2	31.5	43.0	15.9	4.4	.9	.1											810	810	810	810						

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**0-26-5 (OL A)**

FROM

**USAFETAC**

## PSYCHROMETRIC SUMMARY

47122  
STATION

CSAN AB KO

STATION NAME

73-81

YEARS

SEP  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB KO

73-81

OCT  
MONTH

PAGE 1

0000-3200

HOURS (L, S, T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

OCT  
MONTH

0300-0500

[illegible]

## PSYCHROMETRIC SUMMARY

OCT  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
6 / 67	.4	.2	.2															7	7	5	3											
6 / 65	.4	.6	.1															9	9	9	5											
4 / 63	.1	.7	.4	.4														13	13	5	8											
4 / 61	.1	.5	1.7	.6														24	24	8	5											
4 / 59	.5	2.4	2.4	.1														45	45	11	12											
5 / 57	.5	2.2	1.7	.6														41	41	44	19											
5 / 55	1.0	3.0	1.7	.4														50	50	45	45											
4 / 53	1.0	3.0	3.0	.2	.1													61	61	57	39											
2 / 51	1.4	6.7	4.1	.2														98	98	66	66											
5 / 49	1.7	3.4	1.1	.2														53	53	98	57											
4 / 47	1.2	4.8	1.1	.7		.1												66	66	74	73											
4 / 45	1.9	6.7	2.4	.2	.5													98	98	72	100											
4 / 43	1.1	5.1	1.3		.1													64	64	80	66											
2 / 41	1.2	5.7	.5	.2														64	64	67	85											
4 / 39	.4	2.4	.6	.1														29	29	44	53											
3 / 37	1.3	1.7	.8	.4	.1													36	36	40	53											
2 / 35	.4	1.3	.4	.7														23	23	28	31											
3 / 33	.2	1.7	.4	.4														22	22	28	22											
2 / 31	1.0		.4															11	11	15	14											
1 / 29	2.0	.1																18	18	25	10											
1 / 27	.4																	3	3	12	27											
1 / 25																				2	19											
2 / 23																					6											
2 / 21																					6											
1 / 19																					3											
1 / 17																					4											
1 / 15																					1											
1 / 13																					2											
1 / 11																					1											
TOTAL	14.6	54.7	23.8	5.9	.8	.1												835	835	835	835											

Station	Z <sub>h</sub>	Z <sub>x</sub>	X	F <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature							
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total	
6.0	6290014	71916	86.1	10.735	835								
6.0	1387515	40145	48.1	8.298	835		3.6	.8					93
6.0	1334971	38529	46.1	8.278	835		6.0	.6					93
6.0	1688735	36737	44.0	9.320	835		10.4	.3					93

## PSYCHROMETRIC SUMMARY

OCT  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point										
7 / 77							.1											1	1											
6 / 75						.4												3	3											
4 / 73					.2	.1												5	5											
2 / 71			.4	.1	.5	.4	.1											12	12											
1 / 69		.1	.7	.1	.8	.8	.4											25	25	1										
4 / 67	.1	.2	.7	.5	2.3	.6	.2	.1										40	40	9										
6 / 65	.2	.4	.7	2.7	1.7	.4	.5	.2										51	51	17										
4 / 63	.1	.2	2.0	4.9	2.7	2.3	.2											105	105	13										
2 / 61	.2	.6	3.9	3.3	1.4	.5	.1	.1										83	83	38										
1 / 59		1.9	2.2	3.3	2.0	.5												83	83	77										
7 / 57	.4	1.9	2.5	2.7	1.4	1.0	.1											84	84	116										
5 / 55	.1	2.7	2.6	2.4	.4	.2	.2											73	73	87										
4 / 53	1.0	1.8	3.5	1.6	1.2	.5	.1											80	80	117										
2 / 51	.7	1.1	1.9	.8	.7	.4	.1											48	48	88										
5 / 49	.1	1.3	1.7	.5	.5	.7												40	40	66										
3 / 47	.6	1.4	.4	.4	.1	.2	.2											28	28	53										
4 / 45		1.0	.8	.7	.2	.6	.1											29	29	46										
4 / 43		.8	.5	.4	.6													19	19	25										
2 / 41			.4	.2	.1	.4												9	9	24										
4 / 39		.2	.4	.2	.1													8	8	14										
3 / 37		.4	.1		.1	.1												6	6	15										
2 / 35		.2			.1													3	3	17										
30 / 33																				5										
22 / 31		.1																1	1	3										
7 / 29	.1																	1	1	6										
2 / 27																														
2 / 25																														
24 / 23																														
2 / 21																														
1 / 19																														
1 / 17																														
16 / 15																														
14 / 13																														
14 / 11																														
Element (X)	Σ x <sup>2</sup>	Σ x	$\bar{x}$	$\sigma_A$	No. Obs.	Mean No. of Hours with Temperature																								

## PSYCHROMETRIC SUMMARY

OCT  
MONTH

YEARS

**MONTH**

0900-1100

HOURS 11-5-7

[illegible]



## PSYCHROMETRIC SUMMARY

PAGE 2      1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
14 / 13																						1
1 / 11																						3
TOTAL	.4	2.4	5.6	10.9	17.8	25.3	22.0	11.0	4.1	.5									835	835	835	
																			835		835	
							</															

## PSYCHROMETRIC SUMMARY

OCT

**MONTH**

1500-1700

1500-1700  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

471223      OSAN AB KO  
STATION

73-81

OCT  
MONTH

PAGE 2      1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
TOTAL	.2	2.0	4.2	8.1	20.0	23.9	21.7	11.9	6.0	1.7	.2							837	837	837		

## PSYCHROMETRIC SUMMARY

471227  
STATION

OSAN AB KO

STATION NAME

73-81

**YEARS**

OCT

MONTH

PAGE 1 1800-2000

**1800-2000**

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

471020  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

OCT

MONTH

PAGE 1

2100-2300

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
70 / 71						.4														3	3			
69 / 69		.4	.6		.1															9	9			
68 / 67		.1	1.0																	9	9	4		
66 / 65		.7	.5	.1	.1	.1														13	13	15	4	
64 / 63		1.0	.7	1.3	.5															29	29	9	16	
62 / 61		.7	2.5	.6	.2															34	34	15	9	
60 / 59		2.9	4.8	1.0																72	72	23	16	
58 / 57		3.6	3.1	1.3	.6	.2														74	74	60	23	
56 / 55	.2	4.4	4.4	2.4	.7															102	102	69	57	
54 / 53		4.7	5.5	1.7	.1	.2														102	102	77	65	
52 / 51	.7	4.4	5.3	.7	.4															96	96	112	78	
50 / 49		3.1	2.5	.5	.1															52	52	120	76	
48 / 47	.1	3.2	1.6	.5		.2														47	47	83	89	
46 / 45	.7	4.4	1.9	.2	.5	.1														66	66	67	119	
44 / 43	.5	2.2	1.0	.7	.4															39	39	45	62	
42 / 41		1.4	1.2	.6	.5	.1														32	32	25	58	
40 / 39		1.7	.2	.5																20	20	25	28	
38 / 37		.6	.6	.2																12	12	32	23	
36 / 35		.7	.8																	13	13	14	27	
34 / 33		.4	.5																	7	7	23	18	
32 / 31			.4																	3	3	11	5	
30 / 29		.2																		2	2	4	14	
28 / 27																						3	21	
26 / 25																							10	
24 / 23																							11	
22 / 21																							2	
20 / 19																							3	
18 / 17																							2	
TOTAL	2.3	40.8	39.0	12.3	4.2	1.4														836	836	836	836	
Element (X)	Σ x'		Σ x		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature										Total			
Rel. Hum.	5496803		67117		80.3		11.395		836		≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F								
Dry Bulb	2334610		43735		52.3		7.474		836				.6	2.3										
Wet Bulb	2074629		41183		49.3		7.412		836				2.0	.4										
Dew Point	1850578		38648		46.2		8.748		836				7.6											

USAFETAC FORM 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

OCT

001  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**HOURS (L. S. T.)**

[illegible]

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47172 STATION OSAN AB KO 73-81 YEARS NOV MONTH  
PAGE 1 7300-0500 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point				
47/63		.4																3	3					
47/61																				3	3			
57/55		.5	.1															5	5					
47/53		1.1	.4	.4														15	15	7	3			
27/51		1.0	1.5	.2														22	22	10	4			
57/49		.7	1.9	.2														23	23	14	9			
77/47	.1	1.6	.7	.1		.1												22	22	33	10			
47/45	1.1	3.2	2.7	.9	.2													60	60	37	37			
47/43	1.1	2.9	2.2	.6														55	55	42	32			
27/41	1.7	4.6	2.7	.2														69	69	54	56			
47/39	1.7	3.4	1.1	1.1	.1													60	60	61	52			
37/37	2.7	1.6	1.2	.5														43	43	69	48			
77/35	.6	3.7	2.6	.7	.2													64	64	35	47			
37/33	1.2	3.5	3.1	.6	.1													69	70	72	43			
27/31	.5	3.6	1.6	.4														49	49	75	40			
77/29	.4	4.8	1.1	.6														56	56	59	44			
77/27	2.1	4.5	1.7	.2														69	69	54	75			
78/25	.7	2.7	1.6	.2														43	43	66	53			
27/23	.2	4.5	1.5	.2														52	52	36	57			
27/21	.2	1.9																17	17	46	50			
77/19		.6	.4															8	8	21	23			
77/17	.1																	1	1	8	26			
77/15																				3	43			
77/13																					19			
77/11																					17			
77/9																					5			
77/3																					5			
77/1																					2			
77/-1																					1			
77/-5																					1			
TOTAL	13.350	.827	.6	7.5	.7	.1												805	806		805			
Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature					Total													
Rel. Hum.	5228778	63948	79.4	13.606	805	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	Total												
Dry Bulb	1117289	29189	36.2	8.649	806		32.9					90												
Wet Bulb	994402	27444	34.1	8.551	805		41.1					90												
Dew Point	820185	24275	30.2	10.472	805	.2	51.5					90												

FORM 0-26-5 (OL A) REVISION PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC AIR 64

## PSYCHROMETRIC SUMMARY

47122'	OSAN AB KO
STATION	STATION NAME

73-81

**YEARS**

NOV  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

[illegible]



NL

$$I_{\text{eff}} = 26.1 \text{ g cm}^2$$

END  
DATE  
TIME:  
4 30  
DE:

## PSYCHROMETRIC SUMMARY

NOV  
MONTH

0600-0800

HOURS (L, S, T.)

[illegible]

FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

NOV  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. Y.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
69						.1												1	1					
68		.1	.4	.1	.5	.1	.1											11	11					
67			.1		.9	.1												9	9	3				
66		.1		.5	1.1	.2												16	16	4	2			
65		.1	.9	.9	.5	.1	.1											21	21	2	3			
64		.6	.7	2.0	.9													34	34	7	3			
63	.1	1.0	1.4	1.5	.5	.2												38	38	27	3			
62		.5	2.9	1.2	.5													41	41	33	10			
61	.5	1.2	2.0	1.2	.4	.2												45	45	47	27			
60	.5	2.9	2.5	2.1	.6	.1												70	70	60	27			
59	.1	2.5	2.7	1.2	1.0	.1												62	62	57	63			
58	.2	1.4	1.7	2.5	.5	.5												55	55	62	53			
57	.4	1.6	2.4	2.3	.6	.1	.1											58	58	43	40			
56	.4	2.0	1.1	1.9	1.2	.1												54	55	58	58			
55	.6	1.6	2.6	2.1	1.2	.1												67	67	56	43			
54	.2	2.1	2.1	1.5	.7													54	54	57	49			
53	.4	1.7	2.1	1.5	.4													49	49	59	42			
52		1.2	1.2	1.4	.9													38	38	64	46			
51	.4	1.4	1.9	1.6	.1													43	43	43	40			
50		1.4	1.2	.7														27	27	44	49			
49	.1	.6	.1	.2														9	9	47	44			
48	.1	.2	.1															4	4	22	30			
47			.1															1	1	8	25			
46																				4	28			
45																					38			
44																					29			
43																					15			
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-47																					3			
-48																					3			
-49																					3			
-50																					3			
-51																								

USAFETAC FORM 0-26-5 (OL A) JUL 64 REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

NOV  
MONTH

PAGE 2 0900-1100  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATP WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

NOV  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
72 / 71							.4	.1										4		4			
71 / 69				.2	.2		.1	.4										8		8			
69 / 67			.1			.2	.1	.4	.1									8		8			
67 / 65				.1	.2	.5	1.1											16		17			
64 / 63				.5	1.2	2.7	1.1	.1										46		46	5		
62 / 61			.1	.2	1.6	1.0	.5	.1										29		29	4 3		
59 / 59			.5	1.5	2.6	1.7	.6	.7										62		62	7		
57 / 57		.1	.6	1.9	1.5	1.7	.4											50		50	11 5		
55 / 55		.5	1.2	1.4	2.4	1.2	.6	.1										60		60	32 2		
54 / 53		.6	1.0	1.9	2.0	.6	1.4	.2										62		63	64 3		
51 / 51		.1	1.4	.7	1.9	1.2	.1	.1										45		45	65 25		
50 / 49		.1	.4	1.4	.7	.5	.2											27		27	57 23		
47 / 47	.1	1.1	.4	.7	2.1	1.5	.2	.1										51		51	66 37		
45 / 45		1.0	.7	1.4	2.6	2.2	.1	.1										66		66	56 78		
44 / 43		.2	1.2	2.0	1.2	1.4												49		49	52 51		
42 / 41	.1		1.5	2.6	3.5	1.5	.1											75		75	40 45		
40 / 39		.2	.4	1.4	2.0	.9												39		39	50 50		
38 / 37		.1	.7	1.0	1.2	.9												32		32	53 38		
36 / 35		.4	.7	1.6	1.7	.4												39		39	54 31		
34 / 33	.1	.2	.5	1.0	1.5													27		27	59 35		
32 / 31			.2	.2														4		4	44 38		
30 / 29			.1	.1	.1													3		3	34 38		
28 / 27			.1	.1														2		2	37 48		
26 / 25																					9 39		
24 / 23																					3 23		
22 / 21																					2 36		
20 / 19																						35	
18 / 17																						30	
16 / 15																						23	
14 / 13																						8	
12 / 11																						13	
10 / 9																						18	
8 / 7																						16	
6 / 5																						9	
Element (X)	Σ X'		Σ X		X̄		σ²		No. Obs.		Mean No. of Hours with Temperature						Total						
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F							
Dry Bulb																							
Wet Bulb																							
Dew Point																							

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE





## PSYCHROMETRIC SUMMARY

NOV  
MONTH

[illegible]



## PSYCHROMETRIC SUMMARY

NOV  
MONTH

1800-2000  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

STATION NAME

**YEARS**

NOV  
MONTH

ALL

**HOURS 11-5-7-1**

[illegible]

## PSYCHROMETRIC SUMMARY

NOV

**YEARS**

ALL

HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
/ 3																																	17		
/ 1																																	8		
/ -1																																	6		
- / -5																																	2		
TOTAL	5.8	31.0	26.5	17.5	11.1	5.6	1.9	.5	.1																								6459	6464	6459



## PSYCHROMETRIC SUMMARY

DEC  
MONTH

0000-0200

HOURS 1, 5, 7, 9

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

PAGE 2      0300-0500  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122 STATION OSAN AB KO STATION NAME 73-81 YEARS DEC MONTH

PAGE 1 0600-0800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
5 / 45		.2																2	2		
4 / 47		.1																1	1	2	
4 / 45	.4	.1	.6	.4														12	12	4	5
4 / 43	.4	1.2	.8	.4														23	23	8	4
2 / 41		1.6	1.1															22	22	12	9
4 / 39		1.6	.5	.1														18	18	23	4
3 / 37	.6	1.1	.5	.5														22	22	29	18
3 / 35	.4	3.2	2.3	.2	.1													52	52	22	16
3 / 33	1.6	2.9	1.0	.5	.1													50	50	63	35
2 / 31	.1	3.0	.7	.1														33	33	41	38
1 / 29	.4	4.7	1.1	.7														57	57	46	33
2 / 27	3.6	5.9	2.2	.4														100	100	78	67
2 / 25	1.2	4.8	1.1	.1														60	60	61	53
2 / 23	.6	4.0	1.7															52	52	69	53
22 / 21	1.9	4.6	.4															57	57	48	44
1 / 19	1.4	3.8	.2															46	46	64	48
1 / 17	1.9	5.0	1.2															68	68	71	49
1 / 15	.5	2.2	.2															24	24	43	53
10 / 13	.2	2.0																19	19	27	48
1 / 11	2.1	1.8																32	32	38	57
1 / 9	.8	2.5	.2															30	30	17	53
1 / 7	.5	1.0																12	12	24	30
1 / 5	1.1	.6																14	14	13	35
4 / 3	.1	.6																6	6	4	17
1 / 1	.4	.2																5	5	8	15
1 / -1	.6																	5	5	7	16
-1 / -3	.3	.1																8	8	8	3
-1 / -5	.4																	3	3	3	10
-1 / -7	.1																	1	1	1	5
-1 / -9	.1																	1	1	1	4
-1 / -11																					3
-1 / -13																					3
-1 / -15																					3
-1 / -17																					2
Element (X)	Σ X <sup>2</sup>		Σ X		Σ		Σ		Σ		No. Obs.		Mean No. of Hours with Temperature								
Rel. Hum.													≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total		
Dry Bulb																					
Wet Bulb																					
Dew Point																					

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

DEC  
MONTH

7600-0000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

DEC

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 1 0900-1100

HOURS 14. 5. 7.

[illegible]

## PSYCHROMETRIC SUMMARY

DEC  
MONTH

PAGE 2 0900-1100  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
-1 / -13																						1											
-1 / -15																						1											
TOTAL	9.744	4.433	6.710	6.2	3														833	833	833	833											

0-26-5 (OL A)

**USAFETAC**

## PSYCHROMETRIC SUMMARY

471220      OSAN AB KO  
STATION

73-81

DEC  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

DEC  
MONTH

PAGE 2      1200-1400  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122 OSAN AB KO 73-81 DEC  
STATION MONTH  
PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
61				.1														1		1					
59				.7		.4	.1											10		10					
57			.1	.1		.2	.1											5		5					
55		.2		.2	.4	.2												9		9	1				
53		.1	.2		.4	.2												8		8	10				
51		.1	.6	.8	1.4	.4												28		28	6				
49			.1	1.7	.7	.5	.2											27		27	5				
47		.7	.8	2.0	1.6	.2												45		45	16				
45		1.3	2.9	2.6	2.5	.8	.2											87		87	31				
43		.4	.8	2.6	1.4	.7												50		50	50				
41		.4	1.3	3.0	2.2	.5												61		61	42				
39		1.1	2.3	3.6	2.4													78		78	52				
37	.1	.1	3.0	3.3	1.8													70		70	66				
35	.1	.6	2.5	3.8	1.8	.1												75		75	65				
33		1.3	2.2	3.6	.4													62		62	84				
31		.2	1.0	2.4	1.3													38		38	87				
29		1.1	.7	3.2	.1													43		43	64				
27	.1	1.2	2.3	2.5	.2													53		53	68				
25		.2	2.5	.4														26		26	50				
23		.4	2.2	.4														24		24	43				
21	.4	.7	.2															11		11	46				
19		.5	.5															8		8	23				
17		.5	.2															6		6	6				
15		.4	.4															6		6	9				
13																					4				
11			.6															5		5	3				
9		.1																1		1	5				
7																					1				
5																									
3																									
1																									
-1																									
-3																									
-5																									
Element (X)	Σ x'		Σ x		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		
Rel. Hum.																									
Dry Bulb																									
Wet Bulb																									
Dew Point																									
Mean No. of Hours with Temperature																									
		≤ 0 F		≤ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F										Total			

## PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

DEC  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## PSYCHROMETRIC SUMMARY

47122  
STATION

OSAN AB KO

STATION NAME

73-81

YEARS

DEC  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
5 / 57				.1															1	1				
5 / 55				.2															2	2				
4 / 53		.2	.6																7	7	1			
4 / 51		.4																	3	3	7			
5 / 49		.1	.2	.2	.2														7	7	6			
4 / 47		.4	.6	.2	.2														12	12	2			
4 / 45		.6	3.2	1.3															43	43	6			
4 / 43	.4	.4	2.4	1.2	.2														38	38	18			
2 / 41	.1	1.2	2.3	1.8	.4														48	48	32			
4 / 39	.2	2.6	2.7	1.6	.1														55	55	49			
3 / 37	.6	.8	4.5	1.4															62	62	56			
3 / 35	.1	1.7	3.5	1.8	.5														63	63	39			
3 / 33		1.7	4.7	1.9															69	69	77			
2 / 31		2.6	2.5	1.7															57	57	79			
2 / 29		3.3	4.3	1.1															73	73	66			
2 / 27	.2	5.4	4.9	1.0															96	96	85			
2 / 25	.2	2.3	3.3																49	49	75			
2 / 23	.2	3.1	2.6																50	50	67			
2 / 21	.5	1.4	1.7																30	30	58			
1 / 19	.5	2.7	.4																24	24	32			
1 / 17	.1	.5	.6																10	10	32			
1 / 15	.1	1.0	.2																11	11	16			
1 / 13	.1	.8	.4																11	11	11			
1 / 11		.2	.1																3	3	8			
1 / 9	.1	.4																	4	4	4			
1 / 7	.1	.6																	6	6	4			
1 / 5	.1																		1	1	5			
1 / 3		.1																	1	1				
1 / 1		.1																	1	1	1			
1 / -1																					1			
-1 / -3																								
-4 / -5																								
-6 / -7																								
-8 / -9																								
Element (X)	Σ X <sup>2</sup>		Σ X		X̄		σ <sub>x</sub>		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total							
Dry Bulb																								
Wet Bulb																								
Dew Point																								

## PSYCHROMETRIC SUMMARY

471220 JSAN AB KO

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

PAGE 2

1800-2000

HOURS (L, S, T.)

[illegible]

## PSYCHROMETRIC SUMMARY

47122

CSAN AB KO

73-81

DEC

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1 2100-2300

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

DEC  
MONTH

PAGE 7      2100-2300  
HOURS L. S. T.

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

DEC  
MONTH

PAGE 1

ALL  
MOMENTS 11.5.7.

[illegible]

## PSYCHROMETRIC SUMMARY

DEC  
MONTH

ALL

**HOURS** L. S. T. 3

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
- / -7	.0																	2	2	2	24	
- / -9	.1																	1	1	1	17	
- / -11																					20	
-1 / -13																					9	
-14 / -15																					6	
-1 / -17																					10	
-1 / -19																					2	
TOTAL	10.3	41.4	27.6	14.5	5.1	1.7	.1											6683	6686	6683		

Element (X)	Σ x'	Σ x	x̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	35007483	471819	70.615	9.37	6683	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	6926734	203030	30.410	6.72	6686	5.5	421.2					744
Wet Bulb	5704594	184212	27.69	6.86	6683	6.0	507.1					744
Dew Point	387413	142349	21.311	2.26	6683	26.5	628.0					744

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

47122 STATION USAN AB KO 73-81 YEARS ALL MONTH ALL  
PAGE 1 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point																	
6 / 97																																2	2					
6 / 95																																42	42					
4 / 93																																90	90					
6 / 91																																191	191					
7 / 89																																341	342					
8 / 97																																557	557					
6 / 85																																552	552					
4 / 83																																953	955					
7 / 81																																2411	2412					
7 / 79																																2238	2239					
7 / 77																																2965	2966					
6 / 75																																2892	2892					
4 / 73																																2720	2720					
7 / 71																																3008	3008					
7 / 69																																2951	2951					
6 / 67																																2051	2051					
6 / 65																																2371	2372					
4 / 63																																3573	3574					
2 / 61																																2345	2346					
7 / 59																																2474	2474					
7 / 57																																1945	1945					
5 / 55																																2049	2049					
4 / 53																																2091	2093					
2 / 51																																2175	2176					
5 / 49																																1536	1536					
4 / 47																																1908	1908					
4 / 45																																3073	3075					
4 / 43																																2215	2215					
2 / 41																																2462	2463					
4 / 39																																2269	2271					
3 / 37																																2280	2280					
2 / 35																																2473	2473					
3 / 33																																2310	2312					
2 / 31																																1691	1691					
Element (X)	Σ x <sup>2</sup>					Σ x					Σ					Σ <sub>s</sub>					No. Obs.					Mean No. of Hours with Temperature												
Rel. Hum.																										≥ 0 F		≥ 32 F		≥ 67 F		≥ 73 F		≥ 80 F		≥ 93 F		Total
Dry Bulb																																						
Wet Bulb																																						
Dew Point																																						

USAFETAC FORM 0-26-5 (OLA) 10-64 REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

ALL

MONTH

ALL

**HOURS (L. 9 - T.)**

[illegible]



2

GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

4-1-82 CSAN AB MO

73-81

STATION		STATION NAME												YEARS											
HRS 1-5		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL											
C-12	MEAN	21.3	25.9	34.7	46.6	56.0	66.1	73.6	72.8	62.9	50.2	37.5	26.8	48.0											
	S D	10.136	9.313	6.326	7.123	6.169	4.740	4.557	4.940	6.614	7.889	8.635	9.504	19.336											
	TOTAL OBS	834	762	836	810	835	807	832	833	808	835	810	835	9837											
C-5	MEAN	19.7	24.1	32.8	44.1	53.7	64.4	72.5	71.6	61.2	48.5	36.2	25.6	46.3											
	S D	10.705	10.050	6.519	7.724	6.611	5.169	4.623	5.224	7.169	8.228	8.649	10.122	19.544											
	TOTAL OBS	834	761	835	809	835	809	831	835	810	837	806	836	9838											
C-6	MEAN	18.7	23.0	32.5	44.8	55.2	65.5	73.3	72.3	61.4	48.1	35.6	24.7	46.4											
	S D	11.261	10.472	6.690	7.915	6.556	4.994	4.846	5.233	7.353	8.298	8.919	10.542	20.288											
	TOTAL OBS	834	762	836	808	834	809	834	836	809	835	807	835	9839											
-11	MEAN	24.2	29.8	41.0	54.5	64.4	72.2	78.3	78.2	69.9	57.6	42.7	30.1	53.7											
	S D	10.481	9.591	7.181	6.757	6.195	4.619	5.425	4.970	5.729	7.607	9.168	10.018	20.230											
	TOTAL OBS	837	762	836	806	833	809	837	830	807	837	808	833	9835											
1-14	MEAN	32.2	36.6	48.0	60.5	69.9	76.9	81.9	82.2	75.7	64.7	49.7	37.2	59.7											
	S D	8.556	9.213	8.066	7.520	7.042	5.135	5.986	5.424	5.002	7.398	9.547	9.051	19.115											
	TOTAL OBS	836	761	837	806	829	807	834	835	810	835	806	836	9832											
-17	MEAN	33.5	37.8	49.0	61.2	71.0	78.1	82.9	82.9	76.1	65.2	50.0	37.9	60.6											
	S D	8.270	9.188	8.060	8.241	7.412	5.263	6.104	5.543	5.130	7.599	9.383	9.076	19.100											
	TOTAL OBS	836	761	837	806	832	809	832	835	809	837	809	837	9840											
-20	MEAN	28.0	32.8	43.0	55.6	65.5	73.7	79.6	79.0	70.3	58.0	44.0	32.3	55.2											
	S D	8.141	8.382	7.188	7.460	6.912	5.018	5.696	5.119	5.499	7.361	8.657	8.939	19.359											
	TOTAL OBS	836	762	835	809	832	810	830	836	809	836	810	837	9842											
1-23	MEAN	23.8	28.8	38.2	50.5	60.0	68.8	75.6	74.9	65.0	52.3	39.4	28.4	50.6											
	S D	9.361	8.423	6.325	6.598	5.881	4.300	4.726	4.515	6.049	7.474	8.492	9.235	19.158											
	TOTAL OBS	837	761	837	809	837	809	833	834	810	836	808	837	9848											
ALL HOURS	MEAN	25.2	29.9	39.9	52.2	61.9	70.7	77.2	76.7	67.8	55.6	41.9	30.4	52.5											
	S D	10.979	10.691	9.318	9.764	9.127	6.981	6.483	6.616	8.346	10.063	10.412	10.672	20.231											
	TOTAL OBS	6684	6092	6689	6463	6667	6469	6663	6674	6472	6668	6464	6686	78711											

CLIMATE CLIMATOLOGY BRANCH  
 AFETAC  
 WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1 2 USAN AB KO

73-81

STATION		STATION NAME												YEARS												
HRS. LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL												
0-22	MEAN	19.9	24.1	32.2	43.5	52.4	62.8	70.3	69.9	60.4	47.8	35.2	25.0	45.4												
	S D	9.864	9.115	6.203	6.955	5.838	4.803	4.449	4.893	6.582	7.790	8.541	9.106	18.794												
	TOTAL OBS	834	762	836	810	835	807	832	833	808	835	810	835	9637												
-10	MEAN	18.5	22.5	30.8	41.7	50.8	61.8	69.6	69.1	59.1	46.5	34.1	24.0	44.1												
	S D	10.395	9.827	6.321	7.363	6.313	5.222	4.471	5.093	7.127	8.255	8.551	9.677	19.085												
	TOTAL OBS	832	761	835	809	835	809	831	835	810	837	805	836	9835												
-13	MEAN	17.5	21.6	30.7	42.2	51.8	62.4	69.9	69.4	59.1	46.1	33.5	23.2	44.1												
	S D	10.952	10.188	6.465	7.423	6.029	4.979	4.593	5.111	7.165	8.278	8.751	10.057	19.590												
	TOTAL OBS	832	761	836	808	834	809	834	836	809	835	807	835	9836												
-11	MEAN	22.7	26.9	36.5	48.2	56.5	65.4	72.3	72.2	64.2	52.5	38.6	27.6	48.7												
	S D	9.994	9.154	6.517	5.893	5.003	4.360	4.529	4.659	5.487	7.234	8.879	9.382	18.670												
	TOTAL OBS	837	762	836	805	832	809	836	830	807	837	807	833	9831												
1.-14	MEAN	27.8	31.5	40.2	50.7	58.5	67.0	73.7	73.5	66.0	55.4	42.5	32.3	51.7												
	S D	8.019	8.398	6.941	6.071	5.258	4.391	4.431	4.555	5.472	6.916	8.982	8.520	17.252												
	TOTAL OBS	836	761	837	806	829	807	834	833	809	835	804	834	9825												
-17	MEAN	28.7	32.3	40.8	51.0	58.8	67.6	74.1	73.8	66.0	55.4	42.8	32.8	52.1												
	S D	7.599	8.239	6.757	6.235	5.426	4.309	4.318	4.478	5.287	6.891	8.657	8.407	17.056												
	TOTAL OBS	836	761	837	806	832	809	832	835	809	837	808	837	9839												
-20	MEAN	25.3	29.3	37.7	48.3	56.7	66.1	72.9	72.7	64.3	52.6	39.7	29.2	49.6												
	S D	7.910	8.076	6.382	6.401	5.634	4.404	4.413	4.347	5.443	7.158	8.522	8.465	17.820												
	TOTAL OBS	836	762	835	809	832	810	830	835	809	836	810	837	9841												
1-23	MEAN	22.1	26.5	34.8	45.9	54.4	64.2	71.3	71.1	61.8	49.3	36.5	26.3	47.1												
	S D	9.092	8.273	6.121	6.436	5.571	4.564	4.295	4.492	6.099	7.412	8.420	8.800	18.346												
	TOTAL OBS	837	761	837	808	837	809	832	833	810	836	808	836	9844												
ALL HOURS	MEAN	22.7	26.8	35.5	46.4	55.0	64.7	71.8	71.5	62.6	50.7	37.9	27.6	47.8												
	S D	10.085	9.687	7.481	7.462	6.351	5.081	4.722	5.018	6.695	8.294	9.302	9.686	18.586												
	TOTAL OBS	6687	6091	6689	6461	6666	6469	6661	6670	6471	6688	6459	6683	78688												

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

471 20 USAN AB KO

73-81

STATION	STATION NAME	YEARS													
HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL		
MEAN	14.6	18.7	27.6	39.7	49.1	60.6	68.6	68.4	58.7	45.3	31.1	20.2	42.0		
S D	11.846	11.428	8.212	8.176	6.827	5.599	4.937	5.333	7.092	8.966	10.451	10.748	20.560		
TOTAL OBS	834	762	836	810	835	807	832	833	808	835	810	835	9837		
MEAN	13.2	17.4	26.6	38.6	48.0	59.9	68.1	67.7	57.6	44.3	30.2	19.4	41.0		
S D	12.330	12.019	8.262	8.158	7.109	5.844	4.860	5.426	7.539	9.377	10.472	11.308	20.836		
TOTAL OBS	832	761	835	809	835	809	831	835	810	837	805	836	9835		
MEAN	12.3	16.7	26.7	39.0	48.6	60.2	68.1	67.8	57.5	44.0	29.6	18.6	43.9		
S D	12.886	12.322	8.341	8.169	6.825	5.714	5.068	5.550	7.565	9.320	10.602	11.562	21.199		
TOTAL OBS	832	761	836	808	834	809	834	836	809	835	807	835	9836		
MEAN	15.4	19.9	29.4	41.2	49.9	61.2	69.3	69.2	60.5	47.7	32.4	21.8	43.3		
S D	12.315	12.101	9.278	8.371	7.245	5.994	5.183	5.666	6.826	9.323	11.690	11.192	20.659		
TOTAL OBS	837	762	836	805	832	809	836	830	807	837	807	833	9831		
MEAN	17.5	21.1	29.0	40.4	49.1	60.9	69.9	69.3	59.8	47.0	32.8	23.0	43.4		
S D	12.018	12.436	10.143	9.726	8.513	6.648	5.137	5.729	7.946	9.891	12.540	11.689	20.494		
TOTAL OBS	836	761	837	806	829	807	834	833	809	835	804	834	9825		
MEAN	18.1	21.7	29.2	40.2	48.8	61.2	70.1	69.4	59.5	46.6	33.3	23.5	43.6		
S D	11.393	11.926	9.818	9.906	8.952	6.534	5.061	5.806	7.729	9.601	11.665	11.138	20.190		
TOTAL OBS	836	761	837	806	832	809	832	835	809	837	808	837	9839		
MEAN	17.9	21.7	29.6	40.5	49.2	61.4	69.6	69.7	60.5	47.6	33.6	22.7	43.8		
S D	10.823	11.107	8.521	9.024	8.287	6.069	5.027	5.300	6.755	8.875	10.909	10.503	19.988		
TOTAL OBS	836	762	835	809	832	810	830	835	809	836	810	837	9841		
MEAN	16.4	20.5	29.1	40.6	49.5	61.2	69.1	69.2	59.6	46.2	31.9	21.1	43.0		
S D	11.325	10.856	8.218	8.213	7.396	5.723	4.837	5.050	6.824	8.748	10.368	10.661	20.194		
TOTAL OBS	837	761	837	808	837	809	832	833	810	836	808	836	9844		
ALL HOURS	15.7	19.7	28.4	40.0	49.0	60.8	69.1	68.8	59.2	46.1	31.9	21.3	42.6		
S D	12.050	11.918	8.948	8.778	7.695	6.044	5.065	5.531	7.378	9.359	11.187	11.226	20.545		
TOTAL OBS	6680	6091	6689	6461	6666	6469	6661	6670	6471	6688	6459	6683	78688		

## RELATIVE HUMIDITY

4712	OSAN AB KO	73-81	JAN
STATION	STATION NAME	PERIOD	MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN.	3-02	100.0	100.0	100.0	99.6	95.2	84.3	64.1	39.1	20.6	76.0	834
	3-05	100.0	100.0	100.0	99.5	96.0	85.6	65.5	40.3	22.0	76.5	832
	6-06	100.0	100.0	100.0	99.3	95.8	86.3	67.3	42.4	21.6	76.9	832
	9-11	100.0	100.0	99.0	96.1	86.9	72.8	53.4	33.2	13.7	70.8	837
	12-14	100.0	99.4	96.5	78.8	58.9	38.6	21.9	12.1	4.1	56.7	836
	15-17	100.0	99.4	95.3	79.3	55.5	35.8	16.9	9.6	3.0	55.1	836
	18-21	100.0	99.9	99.6	97.4	85.3	63.4	37.9	19.4	7.7	67.0	836
	21-23	100.0	100.0	100.0	98.8	93.1	82.0	56.9	37.3	17.0	74.1	837
TOTALS		100.0	99.6	98.8	93.6	83.3	68.6	48.0	29.2	13.7	69.1	6680

## RELATIVE HUMIDITY

412  
STATION

OSAN AB KO

STATION NAME

73-81

PERIOD

FEB  
MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	0-02	100.0	100.0	100.0	99.7	95.3	84.0	62.7	38.3	16.0	74.9	762
	03-05	100.0	100.0	99.9	99.6	95.8	89.1	66.5	41.5	16.8	76.2	761
	06-08	100.0	100.0	100.0	99.1	95.8	89.1	72.0	42.2	17.9	77.3	761
	09-11	100.0	100.0	99.1	94.5	83.3	70.3	45.4	26.1	8.7	68.3	762
	12-14	100.0	100.0	94.1	77.3	54.5	37.1	21.2	11.3	2.9	55.5	761
	15-17	100.0	99.7	95.0	75.4	53.6	32.6	17.7	10.5	3.3	54.4	761
	18-20	100.0	100.0	99.9	95.5	81.1	57.7	33.6	19.4	5.8	64.9	762
	21-23	100.0	100.0	100.0	99.5	93.4	77.7	52.6	30.2	11.8	72.0	761
TOTALS		100.0	100.0	98.5	92.6	81.6	67.2	46.5	27.4	10.4	67.9	6091

4712  
STATION

CSAN AB KO

73-81

MAR

STATION NAME

PERIOD

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	99.9	98.8	94.9	86.1	68.2	44.9	15.1	76.3	836
	03-05	100.0	100.0	100.0	98.9	96.3	88.3	77.5	54.5	21.4	79.1	835
	06-08	100.0	100.0	100.0	99.2	95.9	89.8	78.9	57.3	23.7	80.0	836
	09-11	100.0	100.0	98.8	91.6	77.5	60.6	38.8	20.1	7.5	65.3	836
	12-14	100.0	99.5	91.6	64.3	42.5	24.1	11.6	5.7	2.7	50.0	837
	15-17	100.0	99.3	90.3	62.0	37.2	21.4	12.5	5.3	2.4	48.6	837
	18-20	100.0	100.0	99.2	92.5	73.1	44.6	22.8	10.9	3.6	60.5	835
	21-23	100.0	100.0	99.9	98.8	91.9	74.4	48.6	27.5	8.4	70.8	837
TOTALS		100.0	99.9	97.5	88.3	76.2	61.2	44.9	28.3	10.6	66.3	6689

4 122	SSAN AB KO	73-81	APR
STATION	STATION NAME	PERIOD	MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE**  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	0-02	100.0	100.0	100.0	99.6	97.7	90.4	73.8	42.7	15.7	77.6	810
	03-05	100.0	100.0	100.0	99.6	98.9	94.9	83.2	56.2	25.8	81.4	809
	06-08	100.0	100.0	100.0	99.8	98.6	92.9	80.4	53.0	24.5	80.6	808
	09-11	100.0	99.8	97.8	89.6	75.4	54.5	36.0	15.2	5.7	62.9	805
	12-14	100.0	98.1	86.7	66.5	45.0	26.3	17.1	8.2	4.2	50.7	806
	15-17	100.0	97.4	84.1	59.7	40.2	25.7	17.6	8.9	3.6	49.4	806
	18-20	100.0	99.8	95.7	86.4	66.4	46.2	27.4	11.2	4.4	59.2	809
	21-23	100.0	100.0	99.9	98.6	92.7	74.0	50.5	21.9	6.6	69.9	808
TOTALS		100.0	99.4	95.5	87.5	76.9	63.1	48.3	27.2	11.3	66.5	6461

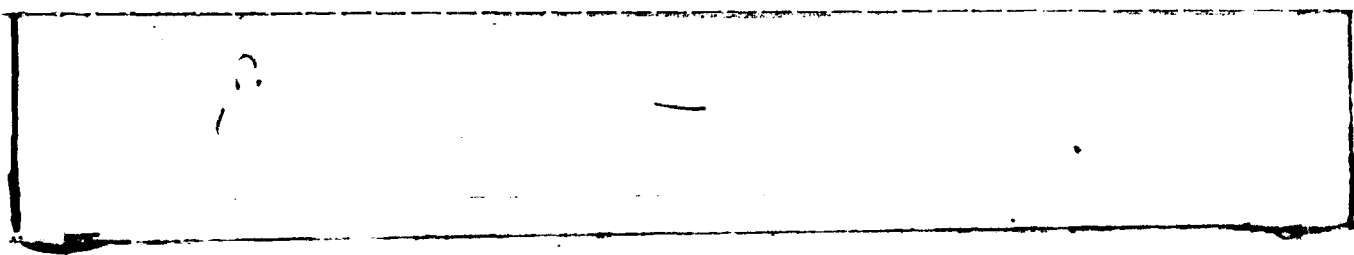
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STATION NAME

PERIOD

MAY  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	0-02	100.0	100.0	100.0	99.6	98.4	92.3	78.7	40.3	14.0	78.4	835
	03-05	100.0	100.0	100.0	99.8	98.8	96.5	86.6	55.9	24.0	81.7	835
	06-08	100.0	100.0	100.0	99.6	98.1	93.8	79.1	46.5	20.1	79.2	834
	09-11	100.0	100.0	98.1	88.7	73.7	52.2	30.9	11.8	2.2	61.3	832
	12-14	100.0	98.9	88.2	68.3	43.8	26.3	14.6	5.9	1.1	50.3	829
	15-17	100.0	96.9	83.7	63.8	39.7	23.1	13.1	5.8	1.8	48.4	832
	18-20	100.0	99.3	95.2	85.2	66.2	42.7	24.5	10.2	3.7	58.0	832
	21-23	100.0	100.0	99.5	97.3	90.6	73.1	52.2	22.2	5.7	69.6	837
TOTALS		100.0	99.4	95.6	87.8	76.2	62.5	47.5	26.5	9.1	65.9	6666





49127	JOAN AB KO	73-81	JUN
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JULY	0-02	100.0	100.0	100.0	100.0	99.6	97.5	90.8	64.9	18.2	92.7	807
	3-05	100.0	100.0	100.0	100.0	99.4	98.3	95.1	77.1	27.6	85.6	809
	6-08	100.0	100.0	100.0	99.9	99.4	97.8	91.2	67.1	21.4	83.4	809
	9-11	100.0	100.0	99.9	97.9	92.1	74.9	48.6	23.0	4.7	69.4	809
	12-14	100.0	100.0	98.6	89.2	68.4	45.5	23.9	6.4	1.6	59.6	807
	15-17	100.0	100.0	98.9	88.1	62.1	38.3	21.5	6.3	2.0	57.7	809
	18-20	100.0	100.0	99.9	97.7	86.9	64.0	39.5	17.0	4.4	66.7	810
	21-23	100.0	100.0	100.0	100.0	98.4	93.3	77.5	40.8	8.7	77.2	809
TOTALS		100.0	100.0	99.7	96.6	88.3	76.5	61.0	38.3	11.1	72.8	6469

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATTN: WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

4712  
STATION

USAN AB KO

73-81

JUL  
MONTH

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	1-02	100.0	100.0	100.0	100.0	99.9	99.3	95.9	67.8	21.8	84.2	832
	03-05	100.0	100.0	100.0	100.0	100.0	99.6	98.3	75.7	27.9	86.0	831
	06-08	100.0	100.0	100.0	100.0	99.9	99.0	93.6	68.4	27.6	83.9	834
	09-11	100.0	100.0	100.0	100.0	98.9	89.5	62.2	29.5	7.3	74.5	836
	12-14	100.0	100.0	100.0	100.0	93.9	67.9	39.0	16.1	3.0	67.8	834
	15-17	100.0	100.0	100.0	99.6	90.6	65.0	34.3	12.7	2.5	66.3	832
	18-20	100.0	100.0	100.0	99.6	97.5	82.9	55.7	24.2	4.9	72.3	830
	21-23	100.0	100.0	100.0	100.0	99.5	98.0	87.1	49.0	12.9	80.3	832
TOTALS		100.0	100.0	100.0	99.9	97.5	87.7	70.8	42.7	12.6	76.9	6661

**USAFETAC**FORM  
11-1-64

0-87-5 (OL A)

4-1-20	STATION	STATION NAME	73-81	PERIOD	AUG	MONTH
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MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	5-02	100.0	100.0	100.0	100.0	100.0	99.6	95.8	75.4	37.5	85.9	833
	3-05	100.0	100.0	100.0	100.0	100.0	99.8	98.3	82.2	33.9	87.5	835
	6-08	100.0	100.0	100.0	100.0	100.0	99.8	96.2	73.9	29.1	85.9	836
	9-11	100.0	100.0	100.0	99.9	98.0	90.0	64.7	26.7	5.8	74.3	830
	12-14	100.0	100.0	100.0	98.3	91.5	66.6	32.2	10.6	2.3	66.1	833
	15-17	100.0	100.0	100.0	97.1	87.4	61.8	30.3	11.9	2.9	64.8	835
	18-20	100.0	100.0	100.0	99.4	97.0	86.0	64.0	27.9	6.3	73.9	835
	21-23	100.0	100.0	100.0	100.0	100.0	98.7	91.8	60.4	16.3	82.5	833
TOTALS		100.0	100.0	100.0	99.3	96.7	87.8	71.7	46.4	15.9	77.6	6670

GLOBAL CLIMATOLOGY BRANCH  
SAFEAC  
AIR WEATHER SERVICE/MAC

4 1 2	USAN AB KO	73-81	SEP
STATION	STATION NAME	PERIOD	MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02	100.0	100.0	100.0	100.0	100.0	98.9	95.9	75.4	34.3	96.4	808
	03-05	100.0	100.0	100.0	100.0	99.9	99.0	98.3	82.6	39.6	87.8	810
	06-08	100.0	100.0	100.0	100.0	99.9	98.8	97.3	77.4	38.1	87.1	809
	09-11	100.0	100.0	100.0	99.3	95.9	83.9	59.5	27.6	8.2	72.9	807
	12-14	100.0	100.0	99.6	93.6	70.1	41.7	19.8	7.7	1.9	59.1	809
	15-17	100.0	100.0	99.9	92.5	60.8	38.8	19.2	7.3	1.4	57.9	809
	18-20	100.0	100.0	100.0	99.6	95.9	83.1	57.7	24.1	4.6	71.8	809
	21-23	100.0	100.0	100.0	100.0	100.0	98.3	91.4	60.6	17.8	82.6	810
TOTALS		100.0	100.0	99.9	98.1	90.3	80.3	67.4	45.3	18.2	75.7	6471

USAFETAC FORM 0-87-5 (OL A)

2

U.S. AIR FORCE CLIMATOLOGY BRANCH  
USAFETAC  
U.S. WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

4112  
STATION

OSAN AB KO

STATION NAME

73-81

PERIOD

JCT  
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	100.0	100.0	99.4	97.6	94.5	89.6	69.3	30.7	83.6	835
	03-05	100.0	100.0	100.0	99.6	98.8	96.2	92.7	76.1	39.2	85.9	837
	06-08	100.0	100.0	100.0	99.9	98.4	96.8	93.3	74.9	41.0	86.1	835
	09-11	100.0	100.0	99.8	96.5	90.4	75.7	54.7	26.2	10.6	71.1	837
	12-14	100.0	100.0	96.6	84.9	57.8	28.7	14.5	4.1	1.3	54.2	835
	15-17	100.0	99.9	96.1	81.1	52.6	24.1	9.7	3.6	1.0	52.6	837
	18-20	100.0	100.0	100.0	99.0	92.9	75.2	50.4	17.3	2.0	69.2	836
	21-23	100.0	100.0	100.0	99.5	97.5	93.5	83.7	56.1	17.6	80.3	836
TOTALS		100.0	100.0	99.1	95.0	85.8	73.1	61.1	41.0	17.9	72.9	6688

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

47112	OSAN AB MO	73-81	NOV
STATION	STATION NAME	PERIOD	MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JANV	00-02	100.0	100.0	99.9	99.1	96.5	87.5	72.8	49.6	22.7	78.5	812
	03-05	100.0	100.0	99.9	99.1	97.1	89.3	75.0	50.8	24.0	79.4	805
	06-08	100.0	100.0	99.9	99.0	96.7	91.9	77.4	49.6	23.5	79.5	807
	09-11	100.0	100.0	99.4	94.7	85.9	68.5	47.5	26.4	8.9	68.6	807
	12-14	100.0	99.9	95.4	80.2	54.5	31.1	16.2	5.7	1.9	54.0	804
	15-17	100.0	100.0	97.0	83.7	53.7	28.5	16.0	5.8	1.6	54.3	808
	18-20	100.0	100.0	100.0	99.0	87.0	68.5	42.6	20.0	4.9	67.8	810
	21-23	100.0	100.0	100.0	99.6	95.0	85.3	64.5	40.7	15.5	75.6	808
TOTALS		100.0	100.0	98.9	94.3	83.3	68.8	51.5	31.1	12.9	69.7	6459

4-122	OSAN AB KO	73-81	DEC
STATION	STATION NAME	PERIOD	MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-02	100.0	100.0	100.0	99.3	96.5	85.4	69.5	43.7	17.4	77.0	835
	03-05	100.0	100.0	99.9	99.8	96.7	87.2	73.7	48.0	18.5	78.0	636
	06-08	100.0	100.0	100.0	99.3	97.0	88.7	74.6	48.0	18.4	78.2	835
	09-11	100.0	100.0	99.9	98.7	90.9	78.0	55.7	31.8	10.3	72.2	833
	12-14	100.0	100.0	98.8	87.1	65.2	40.4	21.9	10.1	2.3	58.1	834
	15-17	100.0	100.0	98.9	89.4	63.8	38.0	18.5	7.4	1.9	57.5	837
	18-20	100.0	100.0	100.0	99.6	90.9	70.4	41.2	21.6	5.5	68.6	837
	21-23	100.0	100.0	100.0	99.0	94.5	82.9	65.6	39.5	15.0	75.2	836
TOTALS		100.0	100.0	99.7	96.5	86.9	71.4	52.6	31.3	11.2	70.6	6683

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

47122 OSAN AB KO  
STATION

STATION NAME

73-81  
PERIOD

ALL  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	99.8	98.8	93.6	83.3	68.6	48.0	29.2	13.7	69.1	6680
FEB		100.0	100.0	98.5	92.6	81.6	67.2	46.5	27.4	10.4	67.9	6091
MAR		100.0	99.9	97.5	88.3	76.2	61.2	44.9	28.3	10.6	66.3	6689
APR		100.0	99.4	95.5	87.5	76.9	63.1	48.3	27.2	11.3	66.5	6461
MAY		100.0	99.4	95.6	87.8	76.2	62.5	47.5	25.5	9.1	65.9	6666
JUN		100.0	100.0	99.7	96.6	88.3	76.5	61.0	38.3	11.1	72.8	6469
JUL		100.0	100.0	100.0	99.9	97.5	87.7	70.8	42.7	12.6	76.9	6661
AUG		100.0	100.0	100.0	99.3	96.7	87.8	71.7	46.4	15.9	77.6	6670
SEP		100.0	100.0	99.9	98.1	90.3	80.3	67.4	45.3	18.2	75.7	6471
OCT		100.0	100.0	99.1	95.0	85.8	73.1	61.1	41.0	17.9	72.9	6688
NOV		100.0	100.0	98.9	94.3	83.3	68.8	51.5	31.1	12.9	69.7	6459
DEC		100.0	100.0	99.7	96.5	86.9	71.4	52.6	31.3	11.2	70.6	6683
TOTALS		100.0	99.9	98.6	94.1	85.3	72.4	55.9	34.5	12.9	71.0	78688



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART F

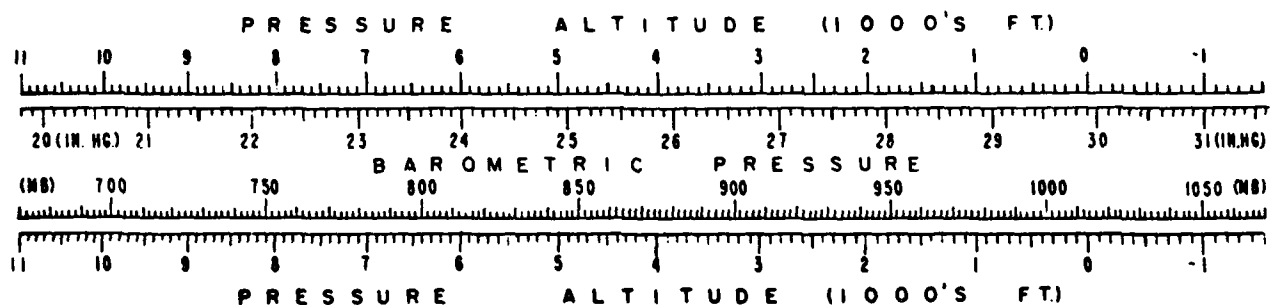
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.  
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.  
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

47122 OSAN AB KO

73-81

STATION

STATION NAME

YEARS

HRS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
MEAN	30.20130	15830	08529	93229	84529	72429	69929	72829	89430	05630	18930	224	29.977	
S D	.150	.166	.145	.157	.144	.138	.106	.140	.132	.144	.149	.150	.239	
TOTAL OBS	278	254	279	270	279	268	278	278	269	277	270	279	3279	
MEAN	30.20530	15830	08129	92429	83429	71429	68729	72029	88530	05530	18830	226	29.972	
S D	.150	.169	.147	.162	.148	.144	.110	.139	.138	.149	.151	.151	.245	
TOTAL OBS	278	254	278	270	278	270	275	277	270	279	269	279	3277	
MEAN	30.19630	15030	08029	92529	84129	72329	69529	72529	89030	06030	18530	214	29.973	
S D	.152	.171	.152	.164	.150	.146	.112	.141	.140	.153	.154	.157	.242	
TOTAL OBS	278	254	279	270	278	269	278	279	270	279	269	279	3282	
MEAN	30.22130	17630	10529	94429	85529	73629	70929	74029	91330	08830	20930	240	29.994	
S D	.153	.175	.153	.164	.150	.145	.113	.143	.141	.156	.156	.162	.246	
TOTAL OBS	279	254	279	269	278	270	278	279	269	278	268	276	3277	
MEAN	30.20730	16530	08629	92629	83629	72229	69729	73329	89830	06630	18930	224	29.978	
S D	.156	.173	.157	.158	.147	.141	.113	.142	.139	.150	.159	.161	.244	
TOTAL OBS	279	254	279	268	276	269	278	277	270	278	269	279	3276	
MEAN	30.15830	11430	03329	88429	79629	68829	66929	69529	85530	01830	14430	180	29.936	
S D	.154	.171	.151	.149	.140	.136	.109	.146	.131	.145	.156	.157	.237	
TOTAL OBS	279	254	279	268	277	270	277	278	270	279	270	279	3280	
MEAN	30.17030	12130	03429	87629	78329	67529	65529	68729	85630	02530	15730	197	29.936	
S D	.149	.168	.145	.147	.139	.132	.104	.144	.129	.141	.153	.152	.243	
TOTAL OBS	277	254	279	269	276	270	276	278	270	279	270	279	3277	
MEAN	30.19330	14530	06729	91929	82329	70729	68429	72229	89330	05830	18030	217	29.967	
S D	.149	.167	.141	.150	.141	.134	.104	.140	.129	.140	.150	.150	.239	
TOTAL OBS	279	254	279	269	279	269	276	278	270	278	269	278	3278	
ALL HOURS	MEAN	30.19430	14830	07129	91629	82729	71129	68729	71929	88630	05330	18030	215	29.967
	S D	.152	.171	.151	.158	.147	.141	.110	.143	.136	.149	.155	.156	.243
	TOTAL OBS	2227	2032	2231	2153	2221	2155	2216	2224	2158	2227	2154	2228	26226

END

DATE  
FILMED

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DTI